

Polynomials - Multiplication of fractions - Monomials & binomials

Find a product:

$$1) \frac{1}{4} \left(\frac{3}{2}n - 1 \right)$$

$$2) \frac{1}{4} \left(\frac{12}{5}b - 2 \right)$$

$$3) \frac{14}{5} \left(2v + \frac{17}{3} \right)$$

$$4) \frac{1}{5} \left(\frac{9}{5}x - \frac{8}{3} \right)$$

$$5) \frac{3a}{2} \left(\frac{6}{5}a + \frac{8}{3} \right)$$

$$6) \frac{4}{3} \left(k - \frac{15}{4} \right)$$

$$7) \frac{9}{5} \left(\frac{2}{5}n - \frac{6}{5} \right)$$

$$8) \frac{7}{3} \left(\frac{5}{2}x - \frac{7}{4} \right)$$

$$9) \frac{4}{5} \left(\frac{3}{2}n + 1 \right)$$

$$10) \frac{3x^3}{2} \left(\frac{4}{5}x - \frac{5}{3} \right)$$

$$11) \frac{23}{5} \left(m + \frac{9}{4} \right)$$

$$12) \frac{3p}{2} \left(\frac{6}{5}p - \frac{1}{4} \right)$$

13) $\frac{3}{5}\left(\frac{2}{3}x + \frac{3}{2}\right)$

14) $\frac{1}{2}\left(\frac{9}{5}n + \frac{5}{4}\right)$

15) $\frac{5m}{2}\left(\frac{5}{2}m - \frac{3}{2}\right)$

16) $\frac{4r^3}{5}\left(2r + \frac{5}{4}\right)$

17) $\frac{8}{5}\left(\frac{3}{4}x - 3\right)$

18) $\frac{3}{4}\left(n - \frac{3}{2}\right)$

19) $\frac{4}{3}\left(b - \frac{3}{2}\right)$

20) $\frac{5v}{2}\left(\frac{5}{3}v - 2\right)$

21) $\frac{3x^2}{5}\left(\frac{5}{3}x - \frac{11}{3}\right)$

22) $\frac{1}{2}\left(\frac{3}{2}x - \frac{2}{5}\right)$

23) $\frac{1}{2}\left(\frac{8}{5}a + 1\right)$

24) $\frac{3}{2}\left(\frac{7}{4}k - 2\right)$

25) $\frac{1}{2}\left(\frac{3}{4}x + 1\right)$

26) $\frac{7}{3}\left(\frac{9}{5}p + \frac{5}{2}\right)$

27) $\frac{3}{2}\left(\frac{1}{2}n + \frac{8}{3}\right)$

28) $\frac{11r}{4}\left(\frac{11}{4}r + 2\right)$

29) $\frac{7m^2}{5}\left(\frac{7}{4}m + 2\right)$

30) $\frac{x^4}{4}\left(\frac{5}{3}x + 5\right)$

31) $\frac{1}{3}\left(\frac{3}{4}n - \frac{18}{5}\right)$

32) $\frac{5}{2}\left(\frac{1}{3}b - 1\right)$

33) $\frac{7}{5}\left(\frac{3}{4}x + 1\right)$

34) $\frac{8v}{3}\left(\frac{3}{4}v + \frac{5}{3}\right)$

35) $\frac{n^3}{4}\left(\frac{7}{4}n - 2\right)$

36) $\frac{x}{2}\left(\frac{2}{3}x - \frac{14}{5}\right)$

37) $\frac{8}{3}\left(\frac{11}{4}k - \frac{17}{5}\right)$

38) $\frac{3}{4}\left(\frac{11}{4}a - \frac{7}{2}\right)$

39) $\frac{13x}{5}\left(\frac{1}{2}x - \frac{7}{4}\right)$

40) $\frac{4p}{3}\left(\frac{1}{5}p + \frac{1}{4}\right)$

41) $\frac{n^4}{4}\left(2n + \frac{2}{3}\right)$

42) $\frac{11m}{4}\left(m + \frac{7}{4}\right)$

43) $\frac{5}{3}\left(2x - \frac{11}{5}\right)$

44) $\frac{3}{2}\left(\frac{2}{3}n - 1\right)$

45) $\frac{3}{5}\left(\frac{5}{3}m + \frac{1}{5}\right)$

46) $\frac{6r}{5}\left(\frac{7}{5}r + \frac{5}{3}\right)$

47) $\frac{4x}{5}\left(\frac{8}{5}x - \frac{4}{3}\right)$

48) $\frac{b}{3}\left(\frac{3}{2}b + \frac{14}{5}\right)$

49) $\frac{2n^2}{3}\left(\frac{9}{5}n - \frac{2}{3}\right)$

50) $\frac{3}{2}\left(\frac{5}{2}v - \frac{8}{5}\right)$

51) $\frac{6x}{5}\left(\frac{1}{2}x + \frac{4}{3}\right)$

52) $\frac{11}{5}\left(\frac{3}{2}x - \frac{5}{4}\right)$

53) $\frac{7}{4}\left(\frac{11}{5}a + \frac{2}{3}\right)$

54) $\frac{8}{3}\left(2k - \frac{4}{3}\right)$

55) $\frac{1}{3}\left(\frac{7}{3}p - \frac{17}{3}\right)$

56) $\frac{5}{2}\left(\frac{5}{2}x + \frac{1}{4}\right)$

57) $\frac{1}{4}\left(\frac{3}{2}m + 5\right)$

58) $\frac{r^2}{4}\left(\frac{11}{5}r + 2\right)$

59) $\frac{1}{5}\left(2n - \frac{11}{4}\right)$

60) $\frac{1}{3}\left(\frac{1}{2}x - \frac{7}{4}\right)$

61) $\frac{5n}{2}\left(\frac{4}{3}n + \frac{7}{4}\right)$

62) $\frac{9}{5}\left(\frac{2}{5}v + \frac{11}{4}\right)$

63) $\frac{3b^3}{2}\left(2b - \frac{6}{5}\right)$

64) $\frac{9}{4}\left(x - \frac{1}{5}\right)$

65) $\frac{3n}{2}\left(\frac{7}{5}n + \frac{1}{3}\right)$

66) $\frac{7}{3}\left(\frac{4}{3}a + 1\right)$

67) $\frac{3k^2}{2}\left(\frac{7}{3}k - \frac{8}{5}\right)$

68) $\frac{3x}{2}\left(\frac{1}{3}x - 1\right)$

69) $\frac{9x}{5}\left(\frac{1}{2}x + \frac{1}{5}\right)$

70) $\frac{3}{4}\left(2n - \frac{8}{5}\right)$

71) $\frac{5}{3}\left(\frac{5}{4}m + 2\right)$

72) $\frac{1}{2}\left(\frac{7}{3}p + \frac{1}{2}\right)$

73) $\frac{5x^4}{2}\left(\frac{1}{2}x - \frac{2}{3}\right)$

74) $\frac{4n}{5}\left(\frac{5}{4}n - \frac{7}{3}\right)$

75) $\frac{2}{5}\left(\frac{1}{4}b + \frac{7}{4}\right)$

76) $\frac{3}{4}\left(\frac{7}{4}r - \frac{8}{3}\right)$

77) $\frac{x}{3}\left(\frac{7}{4}x + \frac{1}{4}\right)$

78) $\frac{2n}{3}\left(\frac{5}{2}n + \frac{2}{3}\right)$

79) $\frac{3}{2}\left(\frac{1}{2}b + \frac{5}{4}\right)$

80) $\frac{1}{5}\left(\frac{1}{4}v + \frac{1}{3}\right)$

81) $\frac{1}{2}\left(\frac{8}{5}x - \frac{9}{4}\right)$

82) $\frac{8}{5}\left(\frac{6}{5}x + \frac{14}{5}\right)$

83) $\frac{k}{3}\left(\frac{9}{4}k - \frac{5}{3}\right)$

84) $\frac{5a}{3}\left(\frac{1}{2}a + \frac{23}{4}\right)$

85) $\frac{1}{2}\left(\frac{8}{5}p - \frac{5}{4}\right)$

86) $\frac{13}{5}\left(\frac{2}{5}n - \frac{13}{5}\right)$

87) $\frac{5m^4}{4}\left(\frac{2}{3}m + 1\right)$

88) $\frac{4x}{5}\left(\frac{8}{3}x + \frac{4}{3}\right)$

89) $\frac{5}{3}\left(\frac{5}{3}r - \frac{12}{5}\right)$

90) $\frac{1}{2}\left(x + \frac{5}{2}\right)$

91) $\frac{5}{2}\left(2n - \frac{3}{4}\right)$

92) $\frac{5}{3}\left(\frac{1}{3}b - \frac{16}{5}\right)$

93) $\frac{7}{4}\left(v + \frac{5}{2}\right)$

94) $\frac{x}{4}\left(\frac{5}{3}x + \frac{4}{3}\right)$

95) $\frac{7}{3}\left(\frac{5}{2}n - \frac{4}{5}\right)$

96) $\frac{2a}{3}\left(\frac{3}{2}a - \frac{11}{4}\right)$

97) $\frac{2k^2}{5}\left(\frac{7}{5}k+2\right)$

98) $\frac{3}{2}\left(2x+\frac{7}{3}\right)$

99) $\frac{7}{4}\left(n+\frac{4}{3}\right)$

100) $\frac{8x^2}{5}\left(\frac{4}{5}x-\frac{6}{5}\right)$

101) $\frac{7}{6}\left(2x+\frac{5}{3}\right)$

102) $\frac{2}{3}\left(\frac{7}{4}m+\frac{2}{3}\right)$

103) $\frac{1}{2}\left(\frac{33}{8}p+\frac{5}{2}\right)$

104) $-\frac{2}{3}\left(\frac{7}{4}n-\frac{16}{7}\right)$

105) $\frac{13b}{6}\left(2b-\frac{4}{3}\right)$

106) $\frac{19}{6}\left(-\frac{11}{2}x+\frac{35}{8}\right)$

107) $-\frac{3r^3}{2}\left(\frac{5}{3}r-2\right)$

108) $\frac{2}{3}\left(-\frac{9}{5}n+\frac{7}{2}\right)$

109) $\frac{3}{2}\left(\frac{2}{3}b+\frac{1}{2}\right)$

110) $\frac{14}{3}\left(3v-\frac{5}{4}\right)$

111) $-\frac{5}{6}\left(-x - \frac{2}{7}\right)$

112) $-\frac{2a^2}{7}\left(\frac{13}{6}a - \frac{7}{4}\right)$

113) $-\frac{10x}{3}\left(-\frac{11}{4}x + \frac{12}{5}\right)$

114) $-\frac{19p}{7}\left(\frac{1}{2}p + \frac{34}{7}\right)$

115) $-\frac{8}{3}\left(\frac{3}{5}k - \frac{3}{8}\right)$

116) $\frac{1}{3}\left(\frac{5}{8}m - \frac{22}{7}\right)$

117) $\frac{7}{5}\left(-2x - \frac{7}{5}\right)$

118) $\frac{35r^2}{8}\left(\frac{11}{6}r + \frac{11}{4}\right)$

119) $-\frac{3n^4}{2}\left(\frac{1}{4}n + \frac{8}{7}\right)$

120) $\frac{13}{7}\left(-\frac{31}{8}n - \frac{3}{2}\right)$

121) $-\frac{3x^2}{2}\left(-\frac{13}{6}x - \frac{7}{4}\right)$

122) $\frac{7b}{3}\left(-\frac{2}{3}b + \frac{3}{8}\right)$

123) $-\frac{7v}{4}\left(-\frac{1}{3}v + \frac{3}{2}\right)$

124) $\frac{x}{4}\left(\frac{7}{4}x - \frac{13}{6}\right)$

125) $\frac{26n}{7}\left(-\frac{5}{2}n + \frac{34}{7}\right)$

126) $-\frac{5}{4}\left(\frac{9}{5}a - \frac{3}{2}\right)$

127) $\frac{19k}{4}\left(-\frac{3}{2}k + \frac{19}{4}\right)$

128) $-\frac{1}{6}\left(-\frac{1}{2}x + \frac{12}{7}\right)$

129) $-\frac{63x}{8}\left(2x - \frac{7}{6}\right)$

130) $-\frac{15}{4}\left(-\frac{7}{4}n + \frac{1}{2}\right)$

131) $\frac{5}{8}\left(\frac{14}{3}m - \frac{2}{5}\right)$

132) $-\frac{13p}{5}\left(-\frac{5}{3}p + \frac{13}{6}\right)$

133) $\frac{5x^2}{4}\left(\frac{3}{4}x - \frac{13}{8}\right)$

134) $-\frac{9}{5}\left(\frac{9}{8}n - \frac{11}{8}\right)$

135) $-\frac{1}{2}\left(\frac{9}{2}b + \frac{9}{4}\right)$

136) $-\frac{2r}{5}\left(-2r - \frac{29}{8}\right)$

137) $\frac{5}{8}\left(\frac{14}{5}x + \frac{33}{8}\right)$

138) $-\frac{15n}{4}\left(-\frac{3}{2}n - \frac{3}{2}\right)$

139) $\frac{3a^2}{2} \left(\frac{4}{3}a - \frac{15}{4} \right)$

140) $\frac{21}{8} \left(\frac{7}{8}x + \frac{21}{5} \right)$

141) $\frac{4v}{5} \left(-\frac{2}{3}v + \frac{1}{6} \right)$

142) $\frac{a}{2} \left(a + \frac{5}{6} \right)$

143) $\frac{23x^2}{6} \left(-\frac{7}{5}x - \frac{4}{3} \right)$

144) $\frac{16}{5} \left(\frac{1}{5}k + \frac{1}{3} \right)$

145) $\frac{3}{2} \left(\frac{17}{4}p - \frac{9}{5} \right)$

146) $\frac{25}{6} \left(-\frac{5}{4}x - \frac{3}{2} \right)$

147) $\frac{9n}{4} \left(-\frac{22}{7}n - \frac{1}{3} \right)$

148) $\frac{11}{6} \left(\frac{9}{7}m + \frac{1}{6} \right)$

149) $\frac{14r^3}{3} \left(-\frac{9}{7}r - \frac{9}{4} \right)$

150) $-\frac{1}{3} \left(-\frac{5}{2}x - \frac{7}{5} \right)$

151) $\frac{3b^3}{2} \left(-\frac{3}{2}b - \frac{8}{7} \right)$

152) $-\frac{4}{3} \left(-\frac{4}{3}n - \frac{27}{7} \right)$

153) $\frac{v}{3}\left(-\frac{1}{2}v + \frac{17}{6}\right)$

154) $\frac{12}{7}\left(-2x + \frac{7}{6}\right)$

155) $\frac{1}{3}\left(-\frac{1}{3}n + \frac{2}{3}\right)$

156) $-\frac{7a^2}{6}\left(\frac{25}{6}a - \frac{11}{8}\right)$

157) $-\frac{1}{3}\left(\frac{7}{2}k + \frac{3}{2}\right)$

158) $-\frac{11x^2}{7}\left(\frac{24}{7}x - \frac{1}{2}\right)$

159) $-\frac{5}{3}\left(\frac{5}{4}n + 4\right)$

160) $\frac{8x^2}{3}\left(\frac{1}{6}x + \frac{8}{5}\right)$

161) $\frac{13}{4}\left(-\frac{1}{2}m + \frac{23}{8}\right)$

162) $\frac{p}{7}\left(\frac{5}{7}p + \frac{9}{7}\right)$

163) $\frac{14}{3}\left(\frac{7}{2}x - \frac{19}{6}\right)$

164) $\frac{27}{8}\left(-\frac{1}{2}n - 5\right)$

165) $-\frac{5}{4}\left(-\frac{27}{4}b + \frac{7}{3}\right)$

166) $-\frac{23}{7}\left(\frac{3}{7}r + \frac{3}{2}\right)$

$$167) -\frac{13}{4}\left(\frac{11}{4}x + \frac{25}{7}\right)$$

$$168) -\frac{17n}{8}\left(-\frac{5}{6}n + \frac{11}{5}\right)$$

$$169) -\frac{a^2}{4}\left(-\frac{7}{4}a + \frac{7}{6}\right)$$

$$170) \frac{15}{8}\left(-\frac{23}{6}v - \frac{11}{3}\right)$$

$$171) \frac{1}{4}\left(\frac{5}{2}x - \frac{17}{7}\right)$$

$$172) \frac{15}{4}\left(-\frac{8}{3}a + \frac{24}{5}\right)$$

$$173) -\frac{3x}{2}\left(\frac{5}{2}x - \frac{5}{4}\right)$$

$$174) -\frac{7}{8}\left(\frac{1}{5}k - \frac{12}{7}\right)$$

$$175) \frac{5p}{4}\left(-\frac{11}{7}p - \frac{1}{2}\right)$$

$$176) \frac{23x}{8}\left(-\frac{7}{2}x + \frac{23}{8}\right)$$

$$177) -\frac{11m}{8}\left(-m - \frac{1}{2}\right)$$

$$178) -\frac{2}{5}\left(-\frac{13}{6}n + \frac{1}{3}\right)$$

$$179) \frac{6r}{5}\left(-\frac{2}{3}r + \frac{18}{5}\right)$$

$$180) -\frac{7}{2}\left(\frac{7}{4}x + \frac{4}{3}\right)$$

181) $-\frac{9}{5}\left(-\frac{11}{6}n - 1\right)$

182) $\frac{11b^5}{8}\left(b - \frac{7}{4}\right)$

183) $-\frac{19v}{6}\left(\frac{5}{4}v - \frac{13}{6}\right)$

184) $\frac{1}{2}\left(\frac{20}{7}x + \frac{17}{6}\right)$

185) $-\frac{13n^2}{5}\left(7n - \frac{3}{2}\right)$

186) $\frac{8}{7}\left(\frac{1}{3}a - \frac{4}{3}\right)$

187) $-\frac{19}{6}\left(-\frac{3}{4}k + \frac{49}{6}\right)$

188) $\frac{1}{2}\left(\frac{27}{7}p - \frac{3}{4}\right)$

189) $-\frac{11x}{4}\left(-\frac{5}{3}x - \frac{31}{8}\right)$

190) $\frac{3n}{2}\left(\frac{19}{6}n - \frac{2}{3}\right)$

191) $-\frac{1}{3}\left(\frac{1}{4}x + \frac{3}{2}\right)$

192) $-\frac{p}{2}\left(-6p - \frac{5}{4}\right)$

193) $-\frac{11m}{6}\left(\frac{5}{7}m - \frac{2}{3}\right)$

194) $\frac{1}{2}\left(\frac{1}{2}n + \frac{23}{6}\right)$

195) $-\frac{5}{3}\left(\frac{18}{5}r - \frac{11}{3}\right)$

196) $\frac{17b^3}{6}\left(\frac{16}{5}b + \frac{1}{4}\right)$

197) $-\frac{7x}{4}\left(-x + \frac{1}{7}\right)$

198) $\frac{17}{3}\left(-3n - \frac{15}{8}\right)$

199) $\frac{13}{5}\left(-\frac{9}{8}a + \frac{7}{4}\right)$

200) $-\frac{11}{3}\left(-\frac{13}{4}v - 2\right)$

201) $\left(\frac{3}{7}x - 1\right)\left(\frac{31}{9}x + 9\right)$

202) $\left(\frac{11}{8}n + \frac{1}{4}\right)\left(\frac{7}{8}n - \frac{2}{5}\right)$

203) $\left(\frac{21}{10}x + \frac{25}{9}\right)\left(\frac{5}{3}x - \frac{49}{6}\right)$

204) $\left(\frac{3}{7}k + \frac{5}{4}\right)\left(\frac{2}{5}k - \frac{26}{7}\right)$

205) $\left(\frac{1}{2}x + \frac{5}{6}\right)\left(6x - \frac{22}{5}\right)$

206) $\left(\frac{6}{7}m + \frac{1}{2}\right)\left(\frac{14}{3}m + \frac{3}{10}\right)$

207) $\left(\frac{13}{9}n + \frac{13}{8}\right)\left(2n + \frac{5}{3}\right)$

208) $\left(8x - \frac{9}{8}\right)\left(\frac{5}{6}x + \frac{3}{2}\right)$

209) $\left(\frac{22}{5}p + \frac{3}{2}\right)\left(\frac{3}{2}p + \frac{16}{3}\right)$

210) $\left(\frac{19}{6}r + 8\right)\left(\frac{52}{9}r + \frac{47}{8}\right)$

211) $\left(\frac{28}{9}b + \frac{17}{10}\right)\left(\frac{6}{5}b - \frac{11}{10}\right)$

212) $\left(\frac{11}{6}v + \frac{11}{7}\right)\left(\frac{9}{8}v - \frac{5}{3}\right)$

213) $\left(\frac{9}{5}n - \frac{4}{3}\right)\left(\frac{21}{10}n + \frac{9}{7}\right)$

214) $\left(\frac{3}{4}x + \frac{13}{8}\right)\left(\frac{7}{9}x + \frac{9}{7}\right)$

215) $\left(\frac{4}{3}n + \frac{5}{3}\right)\left(\frac{14}{3}n + \frac{16}{9}\right)$

216) $\left(\frac{12}{7}k + 1\right)\left(\frac{7}{3}k + \frac{9}{8}\right)$

217) $\left(\frac{2}{3}p - \frac{14}{5}\right)\left(\frac{9}{8}p + \frac{1}{2}\right)$

218) $\left(\frac{19}{4}x - \frac{4}{3}\right)\left(\frac{4}{5}x - \frac{3}{2}\right)$

219) $\left(2n - \frac{4}{3}\right)\left(\frac{4}{5}n + \frac{5}{6}\right)$

220) $\left(\frac{3}{2}a - \frac{28}{9}\right)\left(\frac{5}{7}a + 8\right)$

221) $\left(\frac{53}{9}m + \frac{32}{9}\right)\left(\frac{1}{3}m + \frac{29}{6}\right)$

222) $\left(\frac{1}{5}x + \frac{3}{2}\right)\left(\frac{39}{7}x + \frac{25}{7}\right)$

223) $\left(\frac{32}{7}p + \frac{1}{7}\right)\left(\frac{20}{9}p + \frac{2}{5}\right)$

224) $\left(\frac{57}{10}b + \frac{4}{3}\right)\left(\frac{13}{3}b + 2\right)$

225) $\left(\frac{11}{6}x - \frac{29}{10}\right)\left(\frac{9}{5}x + \frac{5}{6}\right)$

226) $\left(\frac{4}{3}n + \frac{7}{4}\right)\left(\frac{43}{8}n + 1\right)$

227) $\left(\frac{45}{8}r + \frac{5}{4}\right)\left(\frac{5}{3}r + \frac{51}{10}\right)$

228) $\left(\frac{1}{2}n + 8\right)\left(\frac{17}{9}n + \frac{5}{3}\right)$

229) $\left(\frac{1}{2}a + 7\right)\left(\frac{9}{10}a + \frac{1}{4}\right)$

230) $\left(\frac{24}{5}x - \frac{7}{4}\right)\left(\frac{11}{10}x + \frac{5}{2}\right)$

231) $\left(3x + \frac{4}{5}\right)\left(\frac{8}{7}x - \frac{1}{3}\right)$

232) $\left(\frac{11}{9}v - 1\right)\left(\frac{8}{9}v + \frac{33}{8}\right)$

233) $\left(\frac{5}{3}n - \frac{8}{5}\right)\left(\frac{2}{3}n - \frac{21}{4}\right)$

234) $\left(\frac{1}{2}k + \frac{1}{5}\right)\left(\frac{1}{6}k + \frac{23}{6}\right)$

235) $\left(\frac{1}{6}x + \frac{3}{10}\right)\left(\frac{6}{5}x - \frac{5}{3}\right)$

236) $\left(\frac{11}{5}n - 2\right)\left(\frac{6}{5}n + \frac{57}{10}\right)$

237) $\left(m + \frac{1}{2}\right)\left(\frac{49}{10}m - \frac{6}{5}\right)$

238) $\left(\frac{16}{9}p + \frac{37}{9}\right)\left(\frac{40}{9}p + \frac{13}{7}\right)$

239) $\left(\frac{9}{8}x + \frac{6}{7}\right)\left(\frac{16}{9}x + \frac{8}{5}\right)$

240) $\left(\frac{51}{10}r + \frac{2}{3}\right)\left(2r - \frac{17}{6}\right)$

241) $\left(\frac{17}{6}n + \frac{33}{10}\right)\left(\frac{7}{6}n - \frac{5}{3}\right)$

242) $\left(\frac{2}{5}v - \frac{2}{3}\right)\left(\frac{1}{6}v + \frac{16}{9}\right)$

243) $\left(\frac{44}{9}x - \frac{4}{5}\right)\left(\frac{11}{6}x + \frac{7}{4}\right)$

244) $\left(\frac{3}{2}b + \frac{3}{2}\right)\left(\frac{4}{7}b + \frac{3}{5}\right)$

245) $\left(\frac{36}{7}k + \frac{31}{10}\right)\left(\frac{5}{3}k + \frac{2}{3}\right)$

246) $\left(\frac{24}{5}a - \frac{1}{4}\right)\left(\frac{10}{9}a + \frac{13}{8}\right)$

247) $\left(n + \frac{4}{3}\right)\left(\frac{7}{3}n + \frac{5}{3}\right)$

248) $\left(\frac{19}{10}p + \frac{11}{2}\right)\left(\frac{7}{4}p - 2\right)$

249) $\left(\frac{7}{8}x + \frac{4}{9}\right)\left(\frac{2}{5}x - \frac{8}{7}\right)$

250) $\left(\frac{2}{7}n + \frac{17}{10}\right)\left(\frac{3}{8}n + \frac{1}{10}\right)$

251) $\left(\frac{3}{2}r + \frac{1}{3}\right)\left(\frac{13}{6}r + \frac{6}{5}\right)$

252) $\left(\frac{15}{4}m - \frac{20}{7}\right)\left(\frac{22}{7}m + \frac{1}{3}\right)$

253) $\left(\frac{47}{10}x - \frac{7}{2}\right)\left(\frac{33}{7}x + \frac{13}{6}\right)$

254) $\left(\frac{7}{5}b - \frac{19}{7}\right)\left(\frac{4}{3}b + 2\right)$

255) $\left(2x + \frac{3}{2}\right)\left(6x - \frac{43}{6}\right)$

256) $\left(n + \frac{44}{9}\right)\left(\frac{17}{4}n + \frac{17}{10}\right)$

257) $\left(\frac{11}{4}r + \frac{33}{8}\right)\left(r - \frac{32}{9}\right)$

258) $\left(\frac{3}{2}a - \frac{6}{7}\right)\left(\frac{20}{9}a + 6\right)$

259) $\left(\frac{13}{8}n + \frac{29}{10}\right)\left(\frac{9}{2}n - \frac{9}{7}\right)$

260) $\left(\frac{10}{3}x + \frac{11}{3}\right)\left(\frac{17}{8}x + \frac{43}{8}\right)$

261) $\left(\frac{29}{5}v + \frac{1}{2}\right)\left(\frac{11}{4}v + 1\right)$

262) $\left(\frac{1}{4}p + \frac{5}{2}\right)\left(\frac{19}{6}p + \frac{1}{4}\right)$

263) $\left(\frac{1}{3}x - \frac{17}{9}\right)\left(\frac{7}{6}x + \frac{1}{7}\right)$

264) $\left(\frac{35}{6}k + \frac{13}{4}\right)\left(\frac{3}{4}k - \frac{3}{2}\right)$

265) $\left(\frac{35}{8}n + \frac{1}{10}\right)\left(\frac{44}{9}n - \frac{1}{7}\right)$

266) $\left(\frac{7}{2}x + \frac{1}{2}\right)\left(\frac{1}{6}x - \frac{27}{10}\right)$

267) $\left(\frac{8}{9}n + \frac{29}{5}\right)\left(\frac{7}{2}n - \frac{2}{3}\right)$

268) $\left(\frac{7}{6}r + \frac{3}{5}\right)\left(\frac{21}{8}r + \frac{10}{9}\right)$

269) $\left(\frac{2}{3}x + \frac{35}{8}\right)\left(\frac{17}{3}x - \frac{1}{2}\right)$

270) $\left(\frac{17}{7}m + \frac{33}{4}\right)\left(\frac{2}{7}m + \frac{59}{10}\right)$

271) $\left(\frac{37}{7}v - \frac{5}{3}\right)\left(\frac{3}{2}v + \frac{10}{7}\right)$

272) $\left(\frac{13}{9}b + \frac{4}{3}\right)\left(\frac{8}{5}b - \frac{11}{5}\right)$

273) $\left(\frac{5}{2}n + \frac{3}{2}\right)\left(\frac{1}{2}n - 10\right)$

274) $\left(\frac{17}{10}a - \frac{10}{3}\right)\left(\frac{41}{10}a + \frac{1}{8}\right)$

275) $\left(\frac{17}{10}n + \frac{4}{9}\right)\left(\frac{13}{8}n - \frac{1}{6}\right)$

276) $\left(2k + \frac{26}{9}\right)\left(\frac{11}{9}k - \frac{24}{7}\right)$

277) $\left(\frac{17}{5}p + \frac{38}{9}\right)\left(\frac{9}{7}p - \frac{13}{5}\right)$

278) $\left(2x + \frac{41}{8}\right)\left(\frac{2}{9}x + \frac{17}{10}\right)$

279) $\left(\frac{5}{4}x + \frac{5}{4}\right)\left(\frac{13}{8}x + \frac{3}{5}\right)$

280) $\left(\frac{22}{7}r - \frac{5}{4}\right)\left(r - \frac{6}{5}\right)$

281) $\left(\frac{5}{4}m + \frac{43}{9}\right)\left(\frac{13}{6}m + 2\right)$

282) $\left(\frac{3}{2}n + \frac{11}{6}\right)\left(\frac{11}{6}n - 1\right)$

283) $\left(\frac{8}{5}x - 2\right)\left(\frac{13}{7}x + \frac{13}{4}\right)$

284) $\left(\frac{2}{3}n + \frac{11}{2}\right)\left(\frac{9}{7}n - \frac{1}{2}\right)$

285) $\left(\frac{47}{10}b + 6\right)\left(\frac{1}{2}b + \frac{3}{4}\right)$

286) $\left(\frac{15}{8}r + \frac{11}{6}\right)\left(\frac{31}{6}r - \frac{21}{10}\right)$

287) $\left(\frac{3}{2}a - 1\right)\left(\frac{31}{7}a + \frac{11}{10}\right)$

288) $\left(\frac{1}{9}v - \frac{4}{3}\right)\left(\frac{6}{7}v - \frac{9}{8}\right)$

289) $\left(\frac{35}{6}x - \frac{13}{4}\right)\left(\frac{19}{6}x - \frac{3}{5}\right)$

290) $\left(\frac{17}{5}x + \frac{8}{9}\right)\left(\frac{31}{6}x - \frac{23}{6}\right)$

291) $\left(\frac{1}{2}x + \frac{5}{3}\right)\left(\frac{11}{9}x + 8\right)$

292) $\left(\frac{1}{3}n + 1\right)\left(\frac{19}{7}n + \frac{16}{9}\right)$

293) $\left(\frac{7}{10}k + \frac{5}{4}\right)\left(2k + \frac{2}{3}\right)$

294) $\left(\frac{1}{6}x + \frac{8}{9}\right)\left(\frac{12}{7}x - \frac{4}{3}\right)$

295) $\left(\frac{16}{9}p + \frac{5}{9}\right)\left(\frac{40}{7}p + \frac{5}{6}\right)$

296) $\left(\frac{21}{4}n + \frac{4}{3}\right)\left(\frac{9}{2}n - \frac{1}{4}\right)$

297) $\left(\frac{8}{5}r - \frac{5}{3}\right)\left(\frac{12}{7}r + \frac{8}{3}\right)$

298) $\left(\frac{7}{4}n + \frac{37}{7}\right)\left(\frac{16}{9}n + \frac{29}{6}\right)$

299) $\left(\frac{5}{7}x + \frac{17}{8}\right)\left(\frac{3}{4}x - \frac{1}{2}\right)$

300) $\left(\frac{14}{3}m + \frac{37}{10}\right)\left(\frac{5}{3}m - 3\right)$

301) $\left(\frac{1}{2}x - \frac{9}{4}\right)\left(\frac{5}{7}x - \frac{3}{2}\right)$

302) $\left(\frac{23}{10}b + \frac{13}{10}\right)\left(\frac{23}{12}b + \frac{5}{6}\right)$

303) $\left(\frac{7}{6}v + \frac{73}{6}\right)\left(\frac{16}{3}v + \frac{8}{7}\right)$

304) $\left(\frac{8}{9}n + \frac{9}{2}\right)\left(\frac{1}{4}n + \frac{14}{3}\right)$

305) $\left(\frac{2}{5}a - \frac{5}{2}\right)\left(a + \frac{28}{5}\right)$

306) $\left(2n - \frac{11}{8}\right)\left(\frac{37}{10}n - \frac{28}{11}\right)$

307) $\left(\frac{37}{12}k + \frac{31}{9}\right)\left(\frac{8}{7}k - \frac{10}{11}\right)$

308) $\left(p - \frac{3}{10}\right)\left(\frac{51}{10}p - 7\right)$

309) $\left(\frac{5}{7}m - 2\right)\left(\frac{17}{10}m + \frac{7}{4}\right)$

310) $\left(\frac{16}{11}n + \frac{1}{3}\right)\left(\frac{13}{2}n + \frac{1}{6}\right)$

311) $\left(\frac{11}{3}r - \frac{7}{8}\right)\left(2r + \frac{46}{9}\right)$

312) $\left(5x + \frac{1}{4}\right)\left(\frac{2}{3}x + \frac{29}{6}\right)$

313) $\left(\frac{19}{4}x + 1\right)\left(\frac{8}{9}x + \frac{6}{7}\right)$

314) $\left(b + \frac{15}{11}\right)\left(\frac{41}{10}b + \frac{74}{11}\right)$

315) $\left(\frac{40}{7}n - 5\right)\left(2n + \frac{12}{11}\right)$

316) $\left(\frac{19}{6}x + \frac{54}{11}\right)\left(12x - \frac{7}{8}\right)$

317) $\left(\frac{7}{8}a + \frac{11}{5}\right)\left(\frac{14}{9}a + \frac{1}{4}\right)$

318) $\left(\frac{1}{2}n + \frac{11}{7}\right)\left(\frac{9}{10}n + \frac{72}{11}\right)$

319) $\left(\frac{2}{3}v + \frac{37}{10}\right)\left(\frac{4}{3}v - \frac{4}{3}\right)$

320) $\left(\frac{7}{5}v + \frac{3}{5}\right)\left(\frac{29}{8}v + \frac{67}{11}\right)$

321) $\left(\frac{79}{12}x - \frac{19}{10}\right)\left(\frac{37}{9}x - 2\right)$

322) $\left(5n + \frac{37}{10}\right)\left(\frac{23}{5}n + \frac{16}{3}\right)$

323) $\left(10k - \frac{4}{5}\right)\left(\frac{3}{2}k - 1\right)$

324) $\left(\frac{9}{7}p + 2\right)\left(\frac{19}{11}p - 10\right)$

325) $\left(\frac{47}{8}x + 1\right)\left(\frac{11}{3}x - \frac{11}{3}\right)$

326) $\left(\frac{13}{10}n + 1\right)\left(\frac{13}{11}n + \frac{5}{4}\right)$

327) $\left(\frac{1}{2}x + \frac{7}{2}\right)\left(\frac{13}{3}x - \frac{15}{11}\right)$

328) $\left(\frac{11}{6}m - \frac{8}{5}\right)\left(\frac{31}{11}m + \frac{7}{10}\right)$

329) $\left(\frac{10}{9}x + \frac{9}{2}\right)\left(\frac{5}{3}x + \frac{3}{2}\right)$

330) $\left(\frac{3}{5}n - 4\right)\left(\frac{3}{5}n + \frac{3}{2}\right)$

331) $\left(\frac{73}{12}b - \frac{42}{11}\right)\left(6b + \frac{3}{2}\right)$

332) $\left(\frac{13}{2}r + 2\right)\left(\frac{11}{6}r + \frac{36}{7}\right)$

333) $\left(\frac{44}{9}v - \frac{29}{12}\right)\left(v + \frac{12}{7}\right)$

334) $\left(\frac{19}{8}a + \frac{2}{3}\right)\left(\frac{4}{9}a - \frac{4}{3}\right)$

335) $\left(9x + \frac{9}{5}\right)\left(\frac{5}{12}x + \frac{27}{8}\right)$

336) $\left(\frac{3}{11}n + \frac{31}{6}\right)\left(\frac{20}{3}n + \frac{24}{5}\right)$

337) $\left(\frac{10}{7}x + \frac{7}{5}\right)\left(\frac{5}{7}x + \frac{61}{9}\right)$

338) $\left(\frac{1}{2}k - \frac{5}{3}\right)\left(\frac{14}{11}k + \frac{19}{6}\right)$

339) $\left(\frac{32}{9}m - \frac{11}{7}\right)\left(\frac{1}{3}m + \frac{47}{12}\right)$

340) $\left(\frac{9}{10}p + 1\right)\left(\frac{24}{11}p + \frac{2}{7}\right)$

341) $\left(\frac{31}{9}n - \frac{13}{9}\right)\left(\frac{11}{2}n + \frac{1}{7}\right)$

342) $\left(\frac{1}{2}r + \frac{53}{8}\right)\left(\frac{3}{4}r + \frac{10}{7}\right)$

343) $\left(\frac{1}{2}x - \frac{3}{2}\right)\left(\frac{11}{7}x + 2\right)$

344) $\left(b + \frac{8}{3}\right)\left(\frac{1}{2}b - \frac{17}{9}\right)$

345) $\left(\frac{25}{12}v + \frac{5}{3}\right)\left(\frac{1}{2}v - \frac{31}{10}\right)$

346) $\left(\frac{4}{3}n + \frac{21}{10}\right)\left(\frac{5}{9}n - \frac{7}{4}\right)$

347) $\left(\frac{15}{11}a + \frac{19}{9}\right)\left(\frac{12}{7}a - \frac{9}{8}\right)$

348) $\left(\frac{1}{2}x - \frac{5}{11}\right)\left(\frac{55}{12}x - 2\right)$

349) $\left(\frac{23}{4}n + \frac{23}{12}\right)\left(\frac{25}{6}n + \frac{1}{3}\right)$

350) $\left(2v + \frac{5}{2}\right)\left(\frac{13}{12}v + \frac{1}{3}\right)$

351) $\left(\frac{26}{3}x + \frac{7}{3}\right)\left(\frac{7}{5}x - \frac{7}{4}\right)$

352) $\left(\frac{17}{11}x - \frac{16}{5}\right)\left(\frac{7}{10}x + 2\right)$

353) $\left(\frac{23}{6}n + \frac{4}{7}\right)\left(\frac{40}{9}n + \frac{16}{11}\right)$

354) $\left(k + \frac{2}{3}\right)\left(\frac{67}{12}k + 10\right)$

355) $\left(\frac{9}{10}p + \frac{27}{8}\right)\left(\frac{109}{12}p + \frac{1}{2}\right)$

356) $\left(\frac{9}{5}r + \frac{19}{6}\right)\left(\frac{3}{4}r + \frac{7}{2}\right)$

357) $\left(\frac{33}{5}x - 2\right)\left(\frac{34}{11}x - 8\right)$

358) $\left(\frac{11}{6}n + \frac{4}{3}\right)\left(\frac{7}{4}n + \frac{5}{3}\right)$

359) $\left(\frac{29}{12}n + \frac{4}{3}\right)\left(\frac{37}{6}n - \frac{1}{2}\right)$

360) $\left(\frac{20}{11}v - \frac{1}{12}\right)\left(\frac{37}{9}v + \frac{5}{9}\right)$

361) $\left(\frac{3}{4}b + \frac{9}{2}\right)\left(\frac{7}{2}b - \frac{12}{5}\right)$

362) $\left(\frac{26}{11}x - \frac{11}{10}\right)\left(x + \frac{17}{6}\right)$

363) $\left(\frac{8}{9}m + \frac{33}{8}\right)\left(\frac{25}{6}m + \frac{31}{6}\right)$

364) $\left(\frac{11}{3}x + \frac{14}{3}\right)\left(x + \frac{1}{2}\right)$

365) $\left(\frac{1}{2}a + \frac{49}{8}\right)\left(\frac{5}{6}a + \frac{19}{8}\right)$

366) $\left(\frac{11}{2}p - 2\right)\left(2p + \frac{9}{11}\right)$

367) $\left(\frac{35}{6}k + \frac{25}{4}\right)\left(11k + \frac{7}{4}\right)$

368) $\left(\frac{11}{6}x + \frac{1}{3}\right)\left(\frac{43}{8}x + \frac{35}{6}\right)$

369) $\left(\frac{4}{3}x + \frac{8}{11}\right)\left(\frac{1}{2}x - \frac{18}{11}\right)$

370) $\left(\frac{18}{5}n + \frac{47}{7}\right)\left(4n - \frac{3}{4}\right)$

371) $\left(\frac{3}{2}r - \frac{12}{11}\right)\left(\frac{23}{12}r + \frac{59}{10}\right)$

372) $\left(\frac{1}{6}n + \frac{7}{4}\right)\left(\frac{13}{2}n + \frac{7}{5}\right)$

373) $\left(\frac{47}{12}m + 2\right)\left(\frac{5}{4}m + \frac{4}{5}\right)$

374) $\left(\frac{37}{7}b - \frac{39}{10}\right)\left(2b + \frac{67}{9}\right)$

375) $\left(\frac{13}{10}x - 12\right)\left(\frac{19}{10}x + \frac{5}{6}\right)$

376) $\left(\frac{15}{4}x + \frac{3}{2}\right)\left(\frac{1}{2}x + \frac{1}{2}\right)$

377) $\left(v + \frac{6}{5}\right)\left(2v + \frac{44}{9}\right)$

378) $\left(\frac{46}{9}k - \frac{5}{3}\right)\left(2k - \frac{4}{3}\right)$

379) $\left(\frac{4}{3}x + \frac{4}{9}\right)\left(x + \frac{16}{11}\right)$

380) $\left(a + \frac{37}{12}\right)\left(\frac{6}{7}a + \frac{11}{10}\right)$

381) $\left(\frac{23}{7}n - \frac{5}{4}\right)\left(\frac{3}{7}n - \frac{1}{3}\right)$

382) $\left(\frac{1}{2}x - \frac{7}{4}\right)\left(\frac{6}{11}x - \frac{29}{12}\right)$

383) $\left(\frac{25}{8}n - \frac{7}{3}\right)\left(\frac{1}{2}n - \frac{5}{6}\right)$

384) $\left(\frac{9}{5}k + \frac{24}{5}\right)\left(10k - \frac{25}{2}\right)$

385) $\left(\frac{47}{12}p - \frac{14}{5}\right)\left(\frac{23}{6}p + \frac{7}{5}\right)$

386) $\left(\frac{5}{4}n - \frac{39}{7}\right)\left(\frac{12}{5}n - \frac{14}{11}\right)$

387) $\left(\frac{12}{7}x + 1\right)\left(\frac{14}{3}x + \frac{49}{12}\right)$

388) $\left(\frac{4}{11}m + \frac{25}{11}\right)\left(\frac{5}{2}m - \frac{17}{6}\right)$

389) $\left(\frac{8}{7}r + \frac{38}{9}\right)\left(\frac{7}{5}r - \frac{1}{4}\right)$

390) $\left(\frac{1}{2}n + \frac{2}{3}\right)\left(\frac{13}{3}n + 2\right)$

391) $\left(\frac{19}{3}x - \frac{19}{10}\right)\left(\frac{20}{7}x + \frac{5}{4}\right)$

392) $\left(\frac{11}{6}b + \frac{11}{6}\right)\left(\frac{5}{2}b + \frac{3}{2}\right)$

393) $\left(2v + \frac{7}{4}\right)\left(\frac{2}{3}v + \frac{9}{7}\right)$

394) $\left(\frac{32}{9}x + \frac{9}{2}\right)\left(\frac{18}{7}x + \frac{63}{10}\right)$

395) $\left(\frac{9}{5}x - \frac{1}{3}\right)\left(2x + \frac{21}{8}\right)$

396) $\left(\frac{32}{9}k + \frac{11}{5}\right)\left(\frac{2}{11}k + \frac{3}{2}\right)$

397) $\left(\frac{3}{2}a + 6\right)\left(\frac{6}{5}a + \frac{11}{7}\right)$

398) $\left(\frac{7}{4}p + \frac{27}{8}\right)\left(\frac{3}{4}p - 2\right)$

399) $\left(\frac{1}{2}n + \frac{11}{6}\right)\left(\frac{13}{3}n - \frac{1}{6}\right)$

400) $\left(\frac{41}{11}x + 1\right)\left(\frac{37}{12}x + \frac{63}{10}\right)$

401) $\left(\frac{1}{3}x + \frac{5}{6}\right)\left(\frac{1}{2}x + \frac{23}{13}\right)$

402) $\left(\frac{7}{2}m - 12\right)\left(-\frac{16}{11}m + \frac{12}{5}\right)$

403) $\left(\frac{2}{11}r + \frac{13}{8}\right)\left(-\frac{3}{5}r + \frac{24}{17}\right)$

404) $\left(-\frac{26}{15}b - 1\right)\left(-\frac{10}{11}b + \frac{125}{16}\right)$

405) $\left(-\frac{23}{13}v + \frac{5}{8}\right)\left(\frac{7}{4}v + \frac{7}{12}\right)$

406) $\left(\frac{23}{6}n + \frac{29}{19}\right)\left(-\frac{29}{15}n + \frac{7}{12}\right)$

407) $\left(\frac{3}{5}x - \frac{7}{5}\right)\left(\frac{4}{5}x - \frac{6}{7}\right)$

408) $\left(\frac{55}{17}a + \frac{1}{2}\right)\left(\frac{1}{2}a - \frac{7}{11}\right)$

409) $\left(-\frac{4}{11}x + \frac{7}{2}\right)\left(\frac{2}{3}x + 13\right)$

410) $\left(\frac{11}{7}n + \frac{5}{6}\right)\left(\frac{21}{10}n - \frac{31}{20}\right)$

411) $\left(\frac{8}{7}k - 1\right)\left(-\frac{1}{3}k + \frac{114}{17}\right)$

412) $\left(\frac{69}{8}x + 5\right)\left(-20x - \frac{11}{6}\right)$

413) $\left(\frac{1}{9}n - \frac{4}{11}\right)\left(\frac{13}{9}n + \frac{37}{12}\right)$

414) $\left(-\frac{1}{4}p + \frac{17}{9}\right)\left(\frac{201}{19}p + \frac{143}{16}\right)$

415) $\left(\frac{58}{15}k + \frac{8}{7}\right)\left(-\frac{1}{7}k + \frac{1}{7}\right)$

416) $\left(\frac{93}{10}x + \frac{106}{11}\right)\left(\frac{1}{3}x + \frac{65}{18}\right)$

417) $\left(-m + \frac{27}{5}\right)\left(m - \frac{5}{3}\right)$

418) $\left(\frac{63}{19}n - \frac{18}{11}\right)\left(\frac{3}{2}n - 2\right)$

419) $\left(-\frac{51}{14}r + \frac{3}{5}\right)\left(\frac{14}{3}r + \frac{137}{10}\right)$

420) $\left(\frac{131}{12}x + \frac{13}{10}\right)\left(-20x - \frac{5}{3}\right)$

421) $\left(-\frac{59}{20}n + \frac{33}{8}\right)\left(-\frac{10}{3}n - 2\right)$

422) $\left(\frac{2}{9}b + \frac{53}{19}\right)\left(\frac{13}{2}b - \frac{7}{12}\right)$

423) $\left(\frac{14}{15}v + \frac{16}{11}\right)\left(\frac{3}{11}v + \frac{44}{19}\right)$

424) $\left(-2x + \frac{55}{8}\right)\left(2x - \frac{22}{17}\right)$

425) $\left(-\frac{12}{5}x + \frac{8}{3}\right)\left(\frac{143}{17}x - \frac{2}{3}\right)$

426) $\left(-17k - \frac{2}{3}\right)\left(-\frac{19}{18}k + \frac{8}{7}\right)$

427) $\left(\frac{138}{19}a - \frac{3}{4}\right)\left(-\frac{18}{5}a + \frac{8}{7}\right)$

428) $\left(\frac{5}{4}x - \frac{12}{7}\right)\left(\frac{13}{5}x + \frac{11}{7}\right)$

429) $\left(\frac{89}{6}p + \frac{29}{4}\right)\left(\frac{109}{16}p + \frac{11}{8}\right)$

430) $\left(-\frac{8}{5}n - 2\right)\left(\frac{51}{16}n - \frac{51}{14}\right)$

431) $\left(\frac{15}{8}r + \frac{115}{18}\right)\left(\frac{2}{17}r + \frac{16}{11}\right)$

432) $\left(\frac{11}{5}x - \frac{5}{3}\right)\left(\frac{76}{15}x + \frac{9}{19}\right)$

433) $\left(-\frac{7}{4}b + \frac{5}{7}\right)\left(\frac{87}{8}b + \frac{287}{16}\right)$

434) $\left(-\frac{1}{2}n + \frac{53}{9}\right)\left(\frac{2}{19}n - \frac{11}{9}\right)$

435) $\left(\frac{131}{17}m + \frac{61}{6}\right)\left(\frac{1}{2}m - \frac{8}{3}\right)$

436) $\left(\frac{10}{9}v + \frac{13}{20}\right)\left(\frac{7}{9}v + \frac{20}{7}\right)$

437) $\left(-6n - \frac{22}{15}\right)\left(\frac{13}{6}n - \frac{2}{3}\right)$

438) $\left(\frac{11}{13}a - \frac{3}{2}\right)\left(\frac{44}{13}a + \frac{49}{6}\right)$

439) $\left(6x - \frac{8}{19}\right)\left(\frac{15}{2}x + \frac{61}{7}\right)$

440) $\left(\frac{29}{8}x + \frac{1}{4}\right)\left(-\frac{17}{6}x + \frac{5}{4}\right)$

441) $\left(\frac{149}{14}n - 2\right)\left(\frac{3}{4}n - \frac{8}{5}\right)$

442) $\left(\frac{59}{12}m + \frac{1}{2}\right)\left(\frac{3}{2}m + \frac{24}{13}\right)$

443) $\left(\frac{16}{9}p - \frac{7}{6}\right)\left(-\frac{30}{11}p + \frac{30}{17}\right)$

444) $\left(\frac{61}{6}x - \frac{11}{9}\right)\left(\frac{4}{3}x + \frac{28}{9}\right)$

445) $\left(-\frac{31}{10}k - \frac{7}{2}\right)\left(-\frac{4}{5}k - \frac{47}{18}\right)$

446) $\left(-\frac{2}{15}n + \frac{3}{4}\right)\left(\frac{11}{7}n + \frac{147}{16}\right)$

447) $\left(17m + \frac{85}{6}\right)\left(\frac{37}{18}m + \frac{41}{14}\right)$

448) $\left(-\frac{8}{19}x - \frac{24}{19}\right)\left(\frac{23}{4}x - \frac{47}{14}\right)$

449) $\left(\frac{6}{5}r + \frac{31}{20}\right)\left(\frac{4}{17}r + \frac{5}{7}\right)$

450) $\left(\frac{64}{11}v + \frac{1}{4}\right)\left(\frac{37}{12}v - \frac{32}{17}\right)$

451) $\left(\frac{84}{17}n + \frac{39}{4}\right)\left(\frac{163}{15}n + \frac{7}{4}\right)$

452) $\left(\frac{9}{5}x - \frac{56}{17}\right)\left(-5x + \frac{8}{3}\right)$

453) $\left(\frac{5}{14}b + \frac{7}{17}\right)\left(\frac{117}{16}b + \frac{171}{16}\right)$

454) $\left(-\frac{1}{2}x + \frac{115}{14}\right)\left(\frac{13}{14}x - \frac{19}{14}\right)$

455) $\left(-\frac{29}{18}x + \frac{1}{4}\right)\left(-x + \frac{5}{6}\right)$

456) $\left(\frac{67}{15}a - \frac{11}{4}\right)\left(-\frac{43}{16}a - \frac{17}{12}\right)$

457) $\left(-\frac{5}{3}p + \frac{17}{15}\right)\left(\frac{69}{20}p + \frac{1}{6}\right)$

458) $\left(-14x + \frac{11}{6}\right)\left(\frac{69}{16}x + \frac{5}{6}\right)$

459) $\left(-\frac{17}{13}k + \frac{17}{3}\right)\left(\frac{13}{16}k + \frac{85}{9}\right)$

460) $\left(\frac{151}{17}n + \frac{53}{12}\right)\left(-\frac{5}{4}n - \frac{23}{14}\right)$

461) $\left(\frac{5}{14}m + 2\right)\left(-\frac{1}{5}m - \frac{1}{5}\right)$

462) $\left(\frac{5}{18}n + \frac{69}{13}\right)\left(\frac{4}{3}n + \frac{17}{4}\right)$

463) $\left(\frac{13}{4}r - \frac{3}{2}\right)\left(\frac{11}{4}r - 10\right)$

464) $\left(\frac{124}{15}b - \frac{5}{6}\right)\left(-\frac{10}{3}b - \frac{1}{3}\right)$

465) $\left(-\frac{37}{20}x + \frac{52}{9}\right)\left(\frac{61}{7}x + \frac{61}{9}\right)$

466) $\left(\frac{5}{9}a + \frac{18}{17}\right)\left(\frac{17}{11}a - \frac{18}{19}\right)$

467) $\left(\frac{10}{3}x + \frac{119}{15}\right)\left(-\frac{11}{4}x - \frac{15}{8}\right)$

468) $\left(\frac{24}{19}n - \frac{17}{10}\right)\left(-\frac{28}{17}n + 1\right)$

469) $\left(\frac{9}{5}v + 3\right)\left(-v + \frac{1}{3}\right)$

470) $\left(\frac{133}{20}x + \frac{5}{4}\right)\left(\frac{49}{6}x - \frac{1}{2}\right)$

471) $\left(\frac{17}{7}k + \frac{123}{20}\right)\left(-k + \frac{1}{2}\right)$

472) $\left(-\frac{21}{11}n + \frac{69}{14}\right)\left(\frac{3}{5}n - \frac{11}{9}\right)$

473) $\left(-\frac{21}{8}m + \frac{13}{7}\right)\left(\frac{13}{8}m - \frac{43}{12}\right)$

474) $\left(\frac{17}{5}p - \frac{5}{14}\right)\left(\frac{18}{11}p + \frac{5}{3}\right)$

475) $\left(-2x - \frac{2}{3}\right)\left(-\frac{4}{3}x - \frac{21}{13}\right)$

476) $\left(-2x + \frac{93}{10}\right)\left(-\frac{19}{16}x - \frac{3}{2}\right)$

477) $\left(\frac{13}{12}n - \frac{10}{13}\right)\left(\frac{76}{9}n + \frac{6}{5}\right)$

478) $\left(-\frac{2}{3}r - \frac{17}{9}\right)\left(-\frac{3}{2}r + \frac{5}{3}\right)$

479) $\left(\frac{37}{4}x + \frac{113}{14}\right)\left(-\frac{5}{9}x + 16\right)$

480) $\left(-\frac{22}{13}n + \frac{17}{16}\right)\left(-\frac{17}{10}n + \frac{14}{11}\right)$

481) $\left(\frac{23}{9}m + \frac{85}{12}\right)\left(-\frac{8}{5}m - \frac{13}{12}\right)$

482) $\left(-\frac{27}{10}b + \frac{32}{7}\right)\left(\frac{2}{7}b + \frac{23}{6}\right)$

483) $\left(-\frac{3}{2}v + \frac{129}{13}\right)\left(\frac{53}{18}v + \frac{37}{8}\right)$

484) $\left(-\frac{43}{14}x + \frac{1}{4}\right)\left(\frac{167}{20}x - \frac{5}{4}\right)$

485) $\left(\frac{19}{12}a + \frac{76}{9}\right)\left(-\frac{2}{5}a + \frac{30}{7}\right)$

486) $\left(\frac{11}{18}p + \frac{12}{7}\right)\left(-3p + \frac{20}{3}\right)$

487) $\left(-\frac{171}{16}x - \frac{1}{5}\right)\left(\frac{1}{2}x + \frac{3}{4}\right)$

488) $\left(\frac{58}{9}k + \frac{177}{20}\right)\left(-\frac{1}{2}k + \frac{131}{20}\right)$

489) $\left(\frac{9}{20}r - \frac{6}{7}\right)\left(\frac{49}{10}r - \frac{65}{19}\right)$

490) $\left(-\frac{11}{17}x - \frac{13}{12}\right)\left(\frac{15}{19}x - \frac{8}{11}\right)$

491) $\left(\frac{3}{2}m + \frac{37}{15}\right)\left(\frac{2}{3}m + \frac{4}{3}\right)$

492) $\left(\frac{86}{13}n + \frac{95}{17}\right)\left(\frac{29}{16}n - \frac{27}{17}\right)$

493) $\left(-\frac{33}{17}x + 1\right)\left(\frac{106}{17}x + \frac{19}{15}\right)$

494) $\left(-\frac{5}{4}b + 1\right)\left(-\frac{1}{5}b + \frac{1}{4}\right)$

495) $\left(\frac{23}{14}n + \frac{7}{4}\right)\left(\frac{19}{2}n - \frac{11}{17}\right)$

496) $\left(\frac{1}{2}v + \frac{3}{2}\right)\left(-12v + \frac{61}{10}\right)$

497) $\left(\frac{73}{18}x + \frac{1}{2}\right)\left(\frac{22}{15}x + \frac{23}{12}\right)$

498) $\left(-n - \frac{1}{2}\right)\left(-\frac{5}{9}n + \frac{4}{9}\right)$

499) $\left(\frac{13}{6}a + \frac{91}{9}\right)\left(\frac{21}{2}a - \frac{25}{12}\right)$

500) $\left(-2k + \frac{4}{3}\right)\left(\frac{16}{17}k + \frac{3}{5}\right)$

Polynomials - Multiplication of fractions - Monomials and binomials

Find a product:

$$1) \frac{1}{4} \left(\frac{3}{2}n - 1 \right)$$

$$\frac{3}{8}n - \frac{1}{4}$$

$$2) \frac{1}{4} \left(\frac{12}{5}b - 2 \right)$$

$$\frac{3}{5}b - \frac{1}{2}$$

$$3) \frac{14}{5} \left(2v + \frac{17}{3} \right)$$

$$\frac{28}{5}v + \frac{238}{15}$$

$$4) \frac{1}{5} \left(\frac{9}{5}x - \frac{8}{3} \right)$$

$$\frac{9}{25}x - \frac{8}{15}$$

$$5) \frac{3a}{2} \left(\frac{6}{5}a + \frac{8}{3} \right)$$

$$\frac{9}{5}a^2 + 4a$$

$$6) \frac{4}{3} \left(k - \frac{15}{4} \right)$$

$$\frac{4}{3}k - 5$$

$$7) \frac{9}{5} \left(\frac{2}{5}n - \frac{6}{5} \right)$$

$$\frac{18}{25}n - \frac{54}{25}$$

$$8) \frac{7}{3} \left(\frac{5}{2}x - \frac{7}{4} \right)$$

$$\frac{35}{6}x - \frac{49}{12}$$

$$9) \frac{4}{5} \left(\frac{3}{2}n + 1 \right)$$

$$\frac{6}{5}n + \frac{4}{5}$$

$$10) \frac{3x^3}{2} \left(\frac{4}{5}x - \frac{5}{3} \right)$$

$$\frac{6}{5}x^4 - \frac{5}{2}x^3$$

$$11) \frac{23}{5} \left(m + \frac{9}{4} \right)$$

$$\frac{23}{5}m + \frac{207}{20}$$

$$12) \frac{3p}{2} \left(\frac{6}{5}p - \frac{1}{4} \right)$$

$$\frac{9}{5}p^2 - \frac{3}{8}p$$

13) $\frac{3}{5}\left(\frac{2}{3}x + \frac{3}{2}\right)$

$$\frac{2}{5}x + \frac{9}{10}$$

14) $\frac{1}{2}\left(\frac{9}{5}n + \frac{5}{4}\right)$

$$\frac{9}{10}n + \frac{5}{8}$$

15) $\frac{5m}{2}\left(\frac{5}{2}m - \frac{3}{2}\right)$

$$\frac{25}{4}m^2 - \frac{15}{4}m$$

16) $\frac{4r^3}{5}\left(2r + \frac{5}{4}\right)$

$$\frac{8}{5}r^4 + r^3$$

17) $\frac{8}{5}\left(\frac{3}{4}x - 3\right)$

$$\frac{6}{5}x - \frac{24}{5}$$

18) $\frac{3}{4}\left(n - \frac{3}{2}\right)$

$$\frac{3}{4}n - \frac{9}{8}$$

19) $\frac{4}{3}\left(b - \frac{3}{2}\right)$

$$\frac{4}{3}b - 2$$

20) $\frac{5v}{2}\left(\frac{5}{3}v - 2\right)$

$$\frac{25}{6}v^2 - 5v$$

21) $\frac{3x^2}{5}\left(\frac{5}{3}x - \frac{11}{3}\right)$

$$x^3 - \frac{11}{5}x^2$$

22) $\frac{1}{2}\left(\frac{3}{2}x - \frac{2}{5}\right)$

$$\frac{3}{4}x - \frac{1}{5}$$

23) $\frac{1}{2}\left(\frac{8}{5}a + 1\right)$

$$\frac{4}{5}a + \frac{1}{2}$$

24) $\frac{3}{2}\left(\frac{7}{4}k - 2\right)$

$$\frac{21}{8}k - 3$$

25) $\frac{1}{2}\left(\frac{3}{4}x + 1\right)$

$$\frac{3}{8}x + \frac{1}{2}$$

26) $\frac{7}{3}\left(\frac{9}{5}p + \frac{5}{2}\right)$

$$\frac{21}{5}p + \frac{35}{6}$$

27) $\frac{3}{2}\left(\frac{1}{2}n + \frac{8}{3}\right)$

$\frac{3}{4}n + 4$

28) $\frac{11r}{4}\left(\frac{11}{4}r + 2\right)$

$\frac{121}{16}r^2 + \frac{11}{2}r$

29) $\frac{7m^2}{5}\left(\frac{7}{4}m + 2\right)$

$\frac{49}{20}m^3 + \frac{14}{5}m^2$

30) $\frac{x^4}{4}\left(\frac{5}{3}x + 5\right)$

$\frac{5}{12}x^5 + \frac{5}{4}x^4$

31) $\frac{1}{3}\left(\frac{3}{4}n - \frac{18}{5}\right)$

$\frac{1}{4}n - \frac{6}{5}$

32) $\frac{5}{2}\left(\frac{1}{3}b - 1\right)$

$\frac{5}{6}b - \frac{5}{2}$

33) $\frac{7}{5}\left(\frac{3}{4}x + 1\right)$

$\frac{21}{20}x + \frac{7}{5}$

34) $\frac{8v}{3}\left(\frac{3}{4}v + \frac{5}{3}\right)$

$2v^2 + \frac{40}{9}v$

35) $\frac{n^3}{4}\left(\frac{7}{4}n - 2\right)$

$\frac{7}{16}n^4 - \frac{1}{2}n^3$

36) $\frac{x}{2}\left(\frac{2}{3}x - \frac{14}{5}\right)$

$\frac{1}{3}x^2 - \frac{7}{5}x$

37) $\frac{8}{3}\left(\frac{11}{4}k - \frac{17}{5}\right)$

$\frac{22}{3}k - \frac{136}{15}$

38) $\frac{3}{4}\left(\frac{11}{4}a - \frac{7}{2}\right)$

$\frac{33}{16}a - \frac{21}{8}$

39) $\frac{13x}{5}\left(\frac{1}{2}x - \frac{7}{4}\right)$

$\frac{13}{10}x^2 - \frac{91}{20}x$

40) $\frac{4p}{3}\left(\frac{1}{5}p + \frac{1}{4}\right)$

$\frac{4}{15}p^2 + \frac{1}{3}p$

41) $\frac{n^4}{4}\left(2n + \frac{2}{3}\right)$

$$\frac{1}{2}n^5 + \frac{1}{6}n^4$$

42) $\frac{11m}{4}\left(m + \frac{7}{4}\right)$

$$\frac{11}{4}m^2 + \frac{77}{16}m$$

43) $\frac{5}{3}\left(2x - \frac{11}{5}\right)$

$$\frac{10}{3}x - \frac{11}{3}$$

44) $\frac{3}{2}\left(\frac{2}{3}n - 1\right)$

$$n - \frac{3}{2}$$

45) $\frac{3}{5}\left(\frac{5}{3}m + \frac{1}{5}\right)$

$$m + \frac{3}{25}$$

46) $\frac{6r}{5}\left(\frac{7}{5}r + \frac{5}{3}\right)$

$$\frac{42}{25}r^2 + 2r$$

47) $\frac{4x}{5}\left(\frac{8}{5}x - \frac{4}{3}\right)$

$$\frac{32}{25}x^2 - \frac{16}{15}x$$

48) $\frac{b}{3}\left(\frac{3}{2}b + \frac{14}{5}\right)$

$$\frac{1}{2}b^2 + \frac{14}{15}b$$

49) $\frac{2n^2}{3}\left(\frac{9}{5}n - \frac{2}{3}\right)$

$$\frac{6}{5}n^3 - \frac{4}{9}n^2$$

50) $\frac{3}{2}\left(\frac{5}{2}v - \frac{8}{5}\right)$

$$\frac{15}{4}v - \frac{12}{5}$$

51) $\frac{6x}{5}\left(\frac{1}{2}x + \frac{4}{3}\right)$

$$\frac{3}{5}x^2 + \frac{8}{5}x$$

52) $\frac{11}{5}\left(\frac{3}{2}x - \frac{5}{4}\right)$

$$\frac{33}{10}x - \frac{11}{4}$$

53) $\frac{7}{4}\left(\frac{11}{5}a + \frac{2}{3}\right)$

$$\frac{77}{20}a + \frac{7}{6}$$

54) $\frac{8}{3}\left(2k - \frac{4}{3}\right)$

$$\frac{16}{3}k - \frac{32}{9}$$

55) $\frac{1}{3}\left(\frac{7}{3}p - \frac{17}{3}\right)$

$$\frac{7}{9}p - \frac{17}{9}$$

56) $\frac{5}{2}\left(\frac{5}{2}x + \frac{1}{4}\right)$

$$\frac{25}{4}x + \frac{5}{8}$$

57) $\frac{1}{4}\left(\frac{3}{2}m + 5\right)$

$$\frac{3}{8}m + \frac{5}{4}$$

58) $\frac{r^2}{4}\left(\frac{11}{5}r + 2\right)$

$$\frac{11}{20}r^3 + \frac{1}{2}r^2$$

59) $\frac{1}{5}\left(2n - \frac{11}{4}\right)$

$$\frac{2}{5}n - \frac{11}{20}$$

60) $\frac{1}{3}\left(\frac{1}{2}x - \frac{7}{4}\right)$

$$\frac{1}{6}x - \frac{7}{12}$$

61) $\frac{5n}{2}\left(\frac{4}{3}n + \frac{7}{4}\right)$

$$\frac{10}{3}n^2 + \frac{35}{8}n$$

62) $\frac{9}{5}\left(\frac{2}{5}v + \frac{11}{4}\right)$

$$\frac{18}{25}v + \frac{99}{20}$$

63) $\frac{3b^3}{2}\left(2b - \frac{6}{5}\right)$

$$3b^4 - \frac{9}{5}b^3$$

64) $\frac{9}{4}\left(x - \frac{1}{5}\right)$

$$\frac{9}{4}x - \frac{9}{20}$$

65) $\frac{3n}{2}\left(\frac{7}{5}n + \frac{1}{3}\right)$

$$\frac{21}{10}n^2 + \frac{1}{2}n$$

66) $\frac{7}{3}\left(\frac{4}{3}a + 1\right)$

$$\frac{28}{9}a + \frac{7}{3}$$

67) $\frac{3k^2}{2}\left(\frac{7}{3}k - \frac{8}{5}\right)$

$$\frac{7}{2}k^3 - \frac{12}{5}k^2$$

68) $\frac{3x}{2}\left(\frac{1}{3}x - 1\right)$

$$\frac{1}{2}x^2 - \frac{3}{2}x$$

69) $\frac{9x}{5}\left(\frac{1}{2}x + \frac{1}{5}\right)$

$$\frac{9}{10}x^2 + \frac{9}{25}x$$

70) $\frac{3}{4}\left(2n - \frac{8}{5}\right)$

$$\frac{3}{2}n - \frac{6}{5}$$

71) $\frac{5}{3}\left(\frac{5}{4}m + 2\right)$

$$\frac{25}{12}m + \frac{10}{3}$$

72) $\frac{1}{2}\left(\frac{7}{3}p + \frac{1}{2}\right)$

$$\frac{7}{6}p + \frac{1}{4}$$

73) $\frac{5x^4}{2}\left(\frac{1}{2}x - \frac{2}{3}\right)$

$$\frac{5}{4}x^5 - \frac{5}{3}x^4$$

74) $\frac{4n}{5}\left(\frac{5}{4}n - \frac{7}{3}\right)$

$$n^2 - \frac{28}{15}n$$

75) $\frac{2}{5}\left(\frac{1}{4}b + \frac{7}{4}\right)$

$$\frac{1}{10}b + \frac{7}{10}$$

76) $\frac{3}{4}\left(\frac{7}{4}r - \frac{8}{3}\right)$

$$\frac{21}{16}r - 2$$

77) $\frac{x}{3}\left(\frac{7}{4}x + \frac{1}{4}\right)$

$$\frac{7}{12}x^2 + \frac{1}{12}x$$

78) $\frac{2n}{3}\left(\frac{5}{2}n + \frac{2}{3}\right)$

$$\frac{5}{3}n^2 + \frac{4}{9}n$$

79) $\frac{3}{2}\left(\frac{1}{2}b + \frac{5}{4}\right)$

$$\frac{3}{4}b + \frac{15}{8}$$

80) $\frac{1}{5}\left(\frac{1}{4}v + \frac{1}{3}\right)$

$$\frac{1}{20}v + \frac{1}{15}$$

81) $\frac{1}{2}\left(\frac{8}{5}x - \frac{9}{4}\right)$

$$\frac{4}{5}x - \frac{9}{8}$$

82) $\frac{8}{5}\left(\frac{6}{5}x + \frac{14}{5}\right)$

$$\frac{48}{25}x + \frac{112}{25}$$

83) $\frac{k}{3}\left(\frac{9}{4}k - \frac{5}{3}\right)$

$$\frac{3}{4}k^2 - \frac{5}{9}k$$

84) $\frac{5a}{3}\left(\frac{1}{2}a + \frac{23}{4}\right)$

$$\frac{5}{6}a^2 + \frac{115}{12}a$$

85) $\frac{1}{2}\left(\frac{8}{5}p - \frac{5}{4}\right)$

$$\frac{4}{5}p - \frac{5}{8}$$

86) $\frac{13}{5}\left(\frac{2}{5}n - \frac{13}{5}\right)$

$$\frac{26}{25}n - \frac{169}{25}$$

87) $\frac{5m^4}{4}\left(\frac{2}{3}m + 1\right)$

$$\frac{5}{6}m^5 + \frac{5}{4}m^4$$

88) $\frac{4x}{5}\left(\frac{8}{3}x + \frac{4}{3}\right)$

$$\frac{32}{15}x^2 + \frac{16}{15}x$$

89) $\frac{5}{3}\left(\frac{5}{3}r - \frac{12}{5}\right)$

$$\frac{25}{9}r - 4$$

90) $\frac{1}{2}\left(x + \frac{5}{2}\right)$

$$\frac{1}{2}x + \frac{5}{4}$$

91) $\frac{5}{2}\left(2n - \frac{3}{4}\right)$

$$5n - \frac{15}{8}$$

92) $\frac{5}{3}\left(\frac{1}{3}b - \frac{16}{5}\right)$

$$\frac{5}{9}b - \frac{16}{3}$$

93) $\frac{7}{4}\left(v + \frac{5}{2}\right)$

$$\frac{7}{4}v + \frac{35}{8}$$

94) $\frac{x}{4}\left(\frac{5}{3}x + \frac{4}{3}\right)$

$$\frac{5}{12}x^2 + \frac{1}{3}x$$

95) $\frac{7}{3}\left(\frac{5}{2}n - \frac{4}{5}\right)$

$$\frac{35}{6}n - \frac{28}{15}$$

96) $\frac{2a}{3}\left(\frac{3}{2}a - \frac{11}{4}\right)$

$$a^2 - \frac{11}{6}a$$

$$97) \frac{2k^2}{5} \left(\frac{7}{5}k + 2 \right)$$

$$\frac{14}{25}k^3 + \frac{4}{5}k^2$$

$$98) \frac{3}{2} \left(2x + \frac{7}{3} \right)$$

$$3x + \frac{7}{2}$$

$$99) \frac{7}{4} \left(n + \frac{4}{3} \right)$$

$$\frac{7}{4}n + \frac{7}{3}$$

$$100) \frac{8x^2}{5} \left(\frac{4}{5}x - \frac{6}{5} \right)$$

$$\frac{32}{25}x^3 - \frac{48}{25}x^2$$

$$101) \frac{7}{6} \left(2x + \frac{5}{3} \right)$$

$$\frac{7}{3}x + \frac{35}{18}$$

$$102) \frac{2}{3} \left(\frac{7}{4}m + \frac{2}{3} \right)$$

$$\frac{7}{6}m + \frac{4}{9}$$

$$103) \frac{1}{2} \left(\frac{33}{8}p + \frac{5}{2} \right)$$

$$\frac{33}{16}p + \frac{5}{4}$$

$$104) -\frac{2}{3} \left(\frac{7}{4}n - \frac{16}{7} \right)$$

$$-\frac{7}{6}n + \frac{32}{21}$$

$$105) \frac{13b}{6} \left(2b - \frac{4}{3} \right)$$

$$\frac{13}{3}b^2 - \frac{26}{9}b$$

$$106) \frac{19}{6} \left(-\frac{11}{2}x + \frac{35}{8} \right)$$

$$-\frac{209}{12}x + \frac{665}{48}$$

$$107) -\frac{3r^3}{2} \left(\frac{5}{3}r - 2 \right)$$

$$-\frac{5}{2}r^4 + 3r^3$$

$$108) \frac{2}{3} \left(-\frac{9}{5}n + \frac{7}{2} \right)$$

$$-\frac{6}{5}n + \frac{7}{3}$$

$$109) \frac{3}{2} \left(\frac{2}{3}b + \frac{1}{2} \right)$$

$$b + \frac{3}{4}$$

$$110) \frac{14}{3} \left(3v - \frac{5}{4} \right)$$

$$14v - \frac{35}{6}$$

$$111) -\frac{5}{6}\left(-x - \frac{2}{7}\right)$$

$$\frac{5}{6}x + \frac{5}{21}$$

$$112) -\frac{2a^2}{7}\left(\frac{13}{6}a - \frac{7}{4}\right)$$

$$-\frac{13}{21}a^3 + \frac{1}{2}a^2$$

$$113) -\frac{10x}{3}\left(-\frac{11}{4}x + \frac{12}{5}\right)$$

$$\frac{55}{6}x^2 - 8x$$

$$114) -\frac{19p}{7}\left(\frac{1}{2}p + \frac{34}{7}\right)$$

$$-\frac{19}{14}p^2 - \frac{646}{49}p$$

$$115) -\frac{8}{3}\left(\frac{3}{5}k - \frac{3}{8}\right)$$

$$-\frac{8}{5}k + 1$$

$$116) \frac{1}{3}\left(\frac{5}{8}m - \frac{22}{7}\right)$$

$$\frac{5}{24}m - \frac{22}{21}$$

$$117) \frac{7}{5}\left(-2x - \frac{7}{5}\right)$$

$$-\frac{14}{5}x - \frac{49}{25}$$

$$118) \frac{35r^2}{8}\left(\frac{11}{6}r + \frac{11}{4}\right)$$

$$\frac{385}{48}r^3 + \frac{385}{32}r^2$$

$$119) -\frac{3n^4}{2}\left(\frac{1}{4}n + \frac{8}{7}\right)$$

$$-\frac{3}{8}n^5 - \frac{12}{7}n^4$$

$$120) \frac{13}{7}\left(-\frac{31}{8}n - \frac{3}{2}\right)$$

$$-\frac{403}{56}n - \frac{39}{14}$$

$$121) -\frac{3x^2}{2}\left(-\frac{13}{6}x - \frac{7}{4}\right)$$

$$\frac{13}{4}x^3 + \frac{21}{8}x^2$$

$$122) \frac{7b}{3}\left(-\frac{2}{3}b + \frac{3}{8}\right)$$

$$-\frac{14}{9}b^2 + \frac{7}{8}b$$

$$123) -\frac{7v}{4}\left(-\frac{1}{3}v + \frac{3}{2}\right)$$

$$\frac{7}{12}v^2 - \frac{21}{8}v$$

$$124) \frac{x}{4}\left(\frac{7}{4}x - \frac{13}{6}\right)$$

$$\frac{7}{16}x^2 - \frac{13}{24}x$$

$$125) \frac{26n}{7} \left(-\frac{5}{2}n + \frac{34}{7} \right)$$

$$-\frac{65}{7}n^2 + \frac{884}{49}n$$

$$126) -\frac{5}{4} \left(\frac{9}{5}a - \frac{3}{2} \right)$$

$$-\frac{9}{4}a + \frac{15}{8}$$

$$127) \frac{19k}{4} \left(-\frac{3}{2}k + \frac{19}{4} \right)$$

$$-\frac{57}{8}k^2 + \frac{361}{16}k$$

$$128) -\frac{1}{6} \left(-\frac{1}{2}x + \frac{12}{7} \right)$$

$$\frac{1}{12}x - \frac{2}{7}$$

$$129) -\frac{63x}{8} \left(2x - \frac{7}{6} \right)$$

$$-\frac{63}{4}x^2 + \frac{147}{16}x$$

$$130) -\frac{15}{4} \left(-\frac{7}{4}n + \frac{1}{2} \right)$$

$$\frac{105}{16}n - \frac{15}{8}$$

$$131) \frac{5}{8} \left(\frac{14}{3}m - \frac{2}{5} \right)$$

$$\frac{35}{12}m - \frac{1}{4}$$

$$132) -\frac{13p}{5} \left(-\frac{5}{3}p + \frac{13}{6} \right)$$

$$\frac{13}{3}p^2 - \frac{169}{30}p$$

$$133) \frac{5x^2}{4} \left(\frac{3}{4}x - \frac{13}{8} \right)$$

$$\frac{15}{16}x^3 - \frac{65}{32}x^2$$

$$134) -\frac{9}{5} \left(\frac{9}{8}n - \frac{11}{8} \right)$$

$$-\frac{81}{40}n + \frac{99}{40}$$

$$135) -\frac{1}{2} \left(\frac{9}{2}b + \frac{9}{4} \right)$$

$$-\frac{9}{4}b - \frac{9}{8}$$

$$136) -\frac{2r}{5} \left(-2r - \frac{29}{8} \right)$$

$$\frac{4}{5}r^2 + \frac{29}{20}r$$

$$137) \frac{5}{8} \left(\frac{14}{5}x + \frac{33}{8} \right)$$

$$\frac{7}{4}x + \frac{165}{64}$$

$$138) -\frac{15n}{4} \left(-\frac{3}{2}n - \frac{3}{2} \right)$$

$$\frac{45}{8}n^2 + \frac{45}{8}n$$

$$139) \frac{3a^2}{2} \left(\frac{4}{3}a - \frac{15}{4} \right)$$

$$2a^3 - \frac{45}{8}a^2$$

$$140) \frac{21}{8} \left(\frac{7}{8}x + \frac{21}{5} \right)$$

$$\frac{147}{64}x + \frac{441}{40}$$

$$141) \frac{4v}{5} \left(-\frac{2}{3}v + \frac{1}{6} \right)$$

$$-\frac{8}{15}v^2 + \frac{2}{15}v$$

$$142) \frac{a}{2} \left(a + \frac{5}{6} \right)$$

$$\frac{1}{2}a^2 + \frac{5}{12}a$$

$$143) \frac{23x^2}{6} \left(-\frac{7}{5}x - \frac{4}{3} \right)$$

$$-\frac{161}{30}x^3 - \frac{46}{9}x^2$$

$$144) \frac{16}{5} \left(\frac{1}{5}k + \frac{1}{3} \right)$$

$$\frac{16}{25}k + \frac{16}{15}$$

$$145) \frac{3}{2} \left(\frac{17}{4}p - \frac{9}{5} \right)$$

$$\frac{51}{8}p - \frac{27}{10}$$

$$146) \frac{25}{6} \left(-\frac{5}{4}x - \frac{3}{2} \right)$$

$$-\frac{125}{24}x - \frac{25}{4}$$

$$147) \frac{9n}{4} \left(-\frac{22}{7}n - \frac{1}{3} \right)$$

$$-\frac{99}{14}n^2 - \frac{3}{4}n$$

$$148) \frac{11}{6} \left(\frac{9}{7}m + \frac{1}{6} \right)$$

$$\frac{33}{14}m + \frac{11}{36}$$

$$149) \frac{14r^3}{3} \left(-\frac{9}{7}r - \frac{9}{4} \right)$$

$$-6r^4 - \frac{21}{2}r^3$$

$$150) -\frac{1}{3} \left(-\frac{5}{2}x - \frac{7}{5} \right)$$

$$\frac{5}{6}x + \frac{7}{15}$$

$$151) \frac{3b^3}{2} \left(-\frac{3}{2}b - \frac{8}{7} \right)$$

$$-\frac{9}{4}b^4 - \frac{12}{7}b^3$$

$$152) -\frac{4}{3} \left(-\frac{4}{3}n - \frac{27}{7} \right)$$

$$\frac{16}{9}n + \frac{36}{7}$$

$$153) \frac{v}{3} \left(-\frac{1}{2}v + \frac{17}{6} \right)$$

$$-\frac{1}{6}v^2 + \frac{17}{18}v$$

$$154) \frac{12}{7} \left(-2x + \frac{7}{6} \right)$$

$$-\frac{24}{7}x + 2$$

$$155) \frac{1}{3} \left(-\frac{1}{3}n + \frac{2}{3} \right)$$

$$-\frac{1}{9}n + \frac{2}{9}$$

$$156) -\frac{7a^2}{6} \left(\frac{25}{6}a - \frac{11}{8} \right)$$

$$-\frac{175}{36}a^3 + \frac{77}{48}a^2$$

$$157) -\frac{1}{3} \left(\frac{7}{2}k + \frac{3}{2} \right)$$

$$-\frac{7}{6}k - \frac{1}{2}$$

$$158) -\frac{11x^2}{7} \left(\frac{24}{7}x - \frac{1}{2} \right)$$

$$-\frac{264}{49}x^3 + \frac{11}{14}x^2$$

$$159) -\frac{5}{3} \left(\frac{5}{4}n + 4 \right)$$

$$-\frac{25}{12}n - \frac{20}{3}$$

$$160) \frac{8x^2}{3} \left(\frac{1}{6}x + \frac{8}{5} \right)$$

$$\frac{4}{9}x^3 + \frac{64}{15}x^2$$

$$161) \frac{13}{4} \left(-\frac{1}{2}m + \frac{23}{8} \right)$$

$$-\frac{13}{8}m + \frac{299}{32}$$

$$162) \frac{p}{7} \left(\frac{5}{7}p + \frac{9}{7} \right)$$

$$\frac{5}{49}p^2 + \frac{9}{49}p$$

$$163) \frac{14}{3} \left(\frac{7}{2}x - \frac{19}{6} \right)$$

$$\frac{49}{3}x - \frac{133}{9}$$

$$164) \frac{27}{8} \left(-\frac{1}{2}n - 5 \right)$$

$$-\frac{27}{16}n - \frac{135}{8}$$

$$165) -\frac{5}{4} \left(-\frac{27}{4}b + \frac{7}{3} \right)$$

$$\frac{135}{16}b - \frac{35}{12}$$

$$166) -\frac{23}{7} \left(\frac{3}{7}r + \frac{3}{2} \right)$$

$$-\frac{69}{49}r - \frac{69}{14}$$

$$167) -\frac{13}{4}\left(\frac{11}{4}x + \frac{25}{7}\right)$$

$$-\frac{143}{16}x - \frac{325}{28}$$

$$168) -\frac{17n}{8}\left(-\frac{5}{6}n + \frac{11}{5}\right)$$

$$\frac{85}{48}n^2 - \frac{187}{40}n$$

$$169) -\frac{a^2}{4}\left(-\frac{7}{4}a + \frac{7}{6}\right)$$

$$\frac{7}{16}a^3 - \frac{7}{24}a^2$$

$$170) \frac{15}{8}\left(-\frac{23}{6}v - \frac{11}{3}\right)$$

$$-\frac{115}{16}v - \frac{55}{8}$$

$$171) \frac{1}{4}\left(\frac{5}{2}x - \frac{17}{7}\right)$$

$$\frac{5}{8}x - \frac{17}{28}$$

$$172) \frac{15}{4}\left(-\frac{8}{3}a + \frac{24}{5}\right)$$

$$-10a + 18$$

$$173) -\frac{3x}{2}\left(\frac{5}{2}x - \frac{5}{4}\right)$$

$$-\frac{15}{4}x^2 + \frac{15}{8}x$$

$$174) -\frac{7}{8}\left(\frac{1}{5}k - \frac{12}{7}\right)$$

$$-\frac{7}{40}k + \frac{3}{2}$$

$$175) \frac{5p}{4}\left(-\frac{11}{7}p - \frac{1}{2}\right)$$

$$-\frac{55}{28}p^2 - \frac{5}{8}p$$

$$176) \frac{23x}{8}\left(-\frac{7}{2}x + \frac{23}{8}\right)$$

$$-\frac{161}{16}x^2 + \frac{529}{64}x$$

$$177) -\frac{11m}{8}\left(-m - \frac{1}{2}\right)$$

$$\frac{11}{8}m^2 + \frac{11}{16}m$$

$$178) -\frac{2}{5}\left(-\frac{13}{6}n + \frac{1}{3}\right)$$

$$\frac{13}{15}n - \frac{2}{15}$$

$$179) \frac{6r}{5}\left(-\frac{2}{3}r + \frac{18}{5}\right)$$

$$-\frac{4}{5}r^2 + \frac{108}{25}r$$

$$180) -\frac{7}{2}\left(\frac{7}{4}x + \frac{4}{3}\right)$$

$$-\frac{49}{8}x - \frac{14}{3}$$

$$181) -\frac{9}{5}\left(-\frac{11}{6}n-1\right)$$

$$\frac{33}{10}n + \frac{9}{5}$$

$$182) \frac{11b^5}{8}\left(b - \frac{7}{4}\right)$$

$$\frac{11}{8}b^6 - \frac{77}{32}b^5$$

$$183) -\frac{19v}{6}\left(\frac{5}{4}v - \frac{13}{6}\right)$$

$$-\frac{95}{24}v^2 + \frac{247}{36}v$$

$$184) \frac{1}{2}\left(\frac{20}{7}x + \frac{17}{6}\right)$$

$$\frac{10}{7}x + \frac{17}{12}$$

$$185) -\frac{13n^2}{5}\left(7n - \frac{3}{2}\right)$$

$$-\frac{91}{5}n^3 + \frac{39}{10}n^2$$

$$186) \frac{8}{7}\left(\frac{1}{3}a - \frac{4}{3}\right)$$

$$\frac{8}{21}a - \frac{32}{21}$$

$$187) -\frac{19}{6}\left(-\frac{3}{4}k + \frac{49}{6}\right)$$

$$\frac{19}{8}k - \frac{931}{36}$$

$$188) \frac{1}{2}\left(\frac{27}{7}p - \frac{3}{4}\right)$$

$$\frac{27}{14}p - \frac{3}{8}$$

$$189) -\frac{11x}{4}\left(-\frac{5}{3}x - \frac{31}{8}\right)$$

$$\frac{55}{12}x^2 + \frac{341}{32}x$$

$$190) \frac{3n}{2}\left(\frac{19}{6}n - \frac{2}{3}\right)$$

$$\frac{19}{4}n^2 - n$$

$$191) -\frac{1}{3}\left(\frac{1}{4}x + \frac{3}{2}\right)$$

$$-\frac{1}{12}x - \frac{1}{2}$$

$$192) -\frac{p}{2}\left(-6p - \frac{5}{4}\right)$$

$$3p^2 + \frac{5}{8}p$$

$$193) -\frac{11m}{6}\left(\frac{5}{7}m - \frac{2}{3}\right)$$

$$-\frac{55}{42}m^2 + \frac{11}{9}m$$

$$194) \frac{1}{2}\left(\frac{1}{2}n + \frac{23}{6}\right)$$

$$\frac{1}{4}n + \frac{23}{12}$$

$$195) -\frac{5}{3}\left(\frac{18}{5}r - \frac{11}{3}\right)$$

$$-6r + \frac{55}{9}$$

$$196) \frac{17b^3}{6}\left(\frac{16}{5}b + \frac{1}{4}\right)$$

$$\frac{136}{15}b^4 + \frac{17}{24}b^3$$

$$197) -\frac{7x}{4}\left(-x + \frac{1}{7}\right)$$

$$\frac{7}{4}x^2 - \frac{1}{4}x$$

$$198) \frac{17}{3}\left(-3n - \frac{15}{8}\right)$$

$$-17n - \frac{85}{8}$$

$$199) \frac{13}{5}\left(-\frac{9}{8}a + \frac{7}{4}\right)$$

$$-\frac{117}{40}a + \frac{91}{20}$$

$$200) -\frac{11}{3}\left(-\frac{13}{4}v - 2\right)$$

$$\frac{143}{12}v + \frac{22}{3}$$

$$201) \left(\frac{3}{7}x - 1\right)\left(\frac{31}{9}x + 9\right)$$

$$\frac{31}{21}x^2 + \frac{26}{63}x - 9$$

$$202) \left(\frac{11}{8}n + \frac{1}{4}\right)\left(\frac{7}{8}n - \frac{2}{5}\right)$$

$$\frac{77}{64}n^2 - \frac{53}{160}n - \frac{1}{10}$$

$$203) \left(\frac{21}{10}x + \frac{25}{9}\right)\left(\frac{5}{3}x - \frac{49}{6}\right)$$

$$\frac{7}{2}x^2 - \frac{6761}{540}x - \frac{1225}{54}$$

$$204) \left(\frac{3}{7}k + \frac{5}{4}\right)\left(\frac{2}{5}k - \frac{26}{7}\right)$$

$$\frac{6}{35}k^2 - \frac{107}{98}k - \frac{65}{14}$$

$$205) \left(\frac{1}{2}x + \frac{5}{6}\right)\left(6x - \frac{22}{5}\right)$$

$$3x^2 + \frac{14}{5}x - \frac{11}{3}$$

$$206) \left(\frac{6}{7}m + \frac{1}{2}\right)\left(\frac{14}{3}m + \frac{3}{10}\right)$$

$$4m^2 + \frac{272}{105}m + \frac{3}{20}$$

$$207) \left(\frac{13}{9}n + \frac{13}{8}\right)\left(2n + \frac{5}{3}\right)$$

$$\frac{26}{9}n^2 + \frac{611}{108}n + \frac{65}{24}$$

$$208) \left(8x - \frac{9}{8}\right)\left(\frac{5}{6}x + \frac{3}{2}\right)$$

$$\frac{20}{3}x^2 + \frac{177}{16}x - \frac{27}{16}$$

$$209) \left(\frac{22}{5}p + \frac{3}{2}\right)\left(\frac{3}{2}p + \frac{16}{3}\right)$$

$$\frac{33}{5}p^2 + \frac{1543}{60}p + 8$$

$$210) \left(\frac{19}{6}r + 8\right)\left(\frac{52}{9}r + \frac{47}{8}\right)$$

$$\frac{494}{27}r^2 + \frac{9335}{144}r + 47$$

$$211) \left(\frac{28}{9}b + \frac{17}{10}\right)\left(\frac{6}{5}b - \frac{11}{10}\right)$$

$$\frac{56}{15}b^2 - \frac{311}{225}b - \frac{187}{100}$$

$$212) \left(\frac{11}{6}v + \frac{11}{7}\right)\left(\frac{9}{8}v - \frac{5}{3}\right)$$

$$\frac{33}{16}v^2 - \frac{649}{504}v - \frac{55}{21}$$

$$213) \left(\frac{9}{5}n - \frac{4}{3}\right)\left(\frac{21}{10}n + \frac{9}{7}\right)$$

$$\frac{189}{50}n^2 - \frac{17}{35}n - \frac{12}{7}$$

$$214) \left(\frac{3}{4}x + \frac{13}{8}\right)\left(\frac{7}{9}x + \frac{9}{7}\right)$$

$$\frac{7}{12}x^2 + \frac{1123}{504}x + \frac{117}{56}$$

$$215) \left(\frac{4}{3}n + \frac{5}{3}\right)\left(\frac{14}{3}n + \frac{16}{9}\right)$$

$$\frac{56}{9}n^2 + \frac{274}{27}n + \frac{80}{27}$$

$$216) \left(\frac{12}{7}k + 1\right)\left(\frac{7}{3}k + \frac{9}{8}\right)$$

$$4k^2 + \frac{179}{42}k + \frac{9}{8}$$

$$217) \left(\frac{2}{3}p - \frac{14}{5}\right)\left(\frac{9}{8}p + \frac{1}{2}\right)$$

$$\frac{3}{4}p^2 - \frac{169}{60}p - \frac{7}{5}$$

$$218) \left(\frac{19}{4}x - \frac{4}{3}\right)\left(\frac{4}{5}x - \frac{3}{2}\right)$$

$$\frac{19}{5}x^2 - \frac{983}{120}x + 2$$

$$219) \left(2n - \frac{4}{3}\right)\left(\frac{4}{5}n + \frac{5}{6}\right)$$

$$\frac{8}{5}n^2 + \frac{3}{5}n - \frac{10}{9}$$

$$220) \left(\frac{3}{2}a - \frac{28}{9}\right)\left(\frac{5}{7}a + 8\right)$$

$$\frac{15}{14}a^2 + \frac{88}{9}a - \frac{224}{9}$$

$$221) \left(\frac{53}{9}m + \frac{32}{9}\right)\left(\frac{1}{3}m + \frac{29}{6}\right)$$

$$\frac{53}{27}m^2 + \frac{1601}{54}m + \frac{464}{27}$$

$$222) \left(\frac{1}{5}x + \frac{3}{2}\right)\left(\frac{39}{7}x + \frac{25}{7}\right)$$

$$\frac{39}{35}x^2 + \frac{127}{14}x + \frac{75}{14}$$

$$223) \left(\frac{32}{7}p + \frac{1}{7}\right)\left(\frac{20}{9}p + \frac{2}{5}\right)$$

$$\frac{640}{63}p^2 + \frac{676}{315}p + \frac{2}{35}$$

$$224) \left(\frac{57}{10}b + \frac{4}{3}\right)\left(\frac{13}{3}b + 2\right)$$

$$\frac{247}{10}b^2 + \frac{773}{45}b + \frac{8}{3}$$

$$225) \left(\frac{11}{6}x - \frac{29}{10}\right)\left(\frac{9}{5}x + \frac{5}{6}\right)$$

$$\frac{33}{10}x^2 - \frac{3323}{900}x - \frac{29}{12}$$

$$226) \left(\frac{4}{3}n + \frac{7}{4}\right)\left(\frac{43}{8}n + 1\right)$$

$$\frac{43}{6}n^2 + \frac{1031}{96}n + \frac{7}{4}$$

$$227) \left(\frac{45}{8}r + \frac{5}{4}\right)\left(\frac{5}{3}r + \frac{51}{10}\right)$$

$$\frac{75}{8}r^2 + \frac{1477}{48}r + \frac{51}{8}$$

$$228) \left(\frac{1}{2}n + 8\right)\left(\frac{17}{9}n + \frac{5}{3}\right)$$

$$\frac{17}{18}n^2 + \frac{287}{18}n + \frac{40}{3}$$

$$229) \left(\frac{1}{2}a + 7\right)\left(\frac{9}{10}a + \frac{1}{4}\right)$$

$$\frac{9}{20}a^2 + \frac{257}{40}a + \frac{7}{4}$$

$$230) \left(\frac{24}{5}x - \frac{7}{4}\right)\left(\frac{11}{10}x + \frac{5}{2}\right)$$

$$\frac{132}{25}x^2 + \frac{403}{40}x - \frac{35}{8}$$

$$231) \left(3x + \frac{4}{5}\right)\left(\frac{8}{7}x - \frac{1}{3}\right)$$

$$\frac{24}{7}x^2 - \frac{3}{35}x - \frac{4}{15}$$

$$232) \left(\frac{11}{9}v - 1\right)\left(\frac{8}{9}v + \frac{33}{8}\right)$$

$$\frac{88}{81}v^2 + \frac{299}{72}v - \frac{33}{8}$$

$$233) \left(\frac{5}{3}n - \frac{8}{5}\right)\left(\frac{2}{3}n - \frac{21}{4}\right)$$

$$\frac{10}{9}n^2 - \frac{589}{60}n + \frac{42}{5}$$

$$234) \left(\frac{1}{2}k + \frac{1}{5}\right)\left(\frac{1}{6}k + \frac{23}{6}\right)$$

$$\frac{1}{12}k^2 + \frac{39}{20}k + \frac{23}{30}$$

$$235) \left(\frac{1}{6}x + \frac{3}{10}\right)\left(\frac{6}{5}x - \frac{5}{3}\right)$$

$$\frac{1}{5}x^2 + \frac{37}{450}x - \frac{1}{2}$$

$$236) \left(\frac{11}{5}n - 2\right)\left(\frac{6}{5}n + \frac{57}{10}\right)$$

$$\frac{66}{25}n^2 + \frac{507}{50}n - \frac{57}{5}$$

$$237) \left(m + \frac{1}{2}\right)\left(\frac{49}{10}m - \frac{6}{5}\right)$$

$$\frac{49}{10}m^2 + \frac{5}{4}m - \frac{3}{5}$$

$$238) \left(\frac{16}{9}p + \frac{37}{9}\right)\left(\frac{40}{9}p + \frac{13}{7}\right)$$

$$\frac{640}{81}p^2 + \frac{12232}{567}p + \frac{481}{63}$$

$$239) \left(\frac{9}{8}x + \frac{6}{7}\right)\left(\frac{16}{9}x + \frac{8}{5}\right)$$

$$2x^2 + \frac{349}{105}x + \frac{48}{35}$$

$$240) \left(\frac{51}{10}r + \frac{2}{3}\right)\left(2r - \frac{17}{6}\right)$$

$$\frac{51}{5}r^2 - \frac{787}{60}r - \frac{17}{9}$$

$$241) \left(\frac{17}{6}n + \frac{33}{10}\right)\left(\frac{7}{6}n - \frac{5}{3}\right)$$

$$\frac{119}{36}n^2 - \frac{157}{180}n - \frac{11}{2}$$

$$242) \left(\frac{2}{5}v - \frac{2}{3}\right)\left(\frac{1}{6}v + \frac{16}{9}\right)$$

$$\frac{1}{15}v^2 + \frac{3}{5}v - \frac{32}{27}$$

$$243) \left(\frac{44}{9}x - \frac{4}{5}\right)\left(\frac{11}{6}x + \frac{7}{4}\right)$$

$$\frac{242}{27}x^2 + \frac{319}{45}x - \frac{7}{5}$$

$$244) \left(\frac{3}{2}b + \frac{3}{2}\right)\left(\frac{4}{7}b + \frac{3}{5}\right)$$

$$\frac{6}{7}b^2 + \frac{123}{70}b + \frac{9}{10}$$

$$245) \left(\frac{36}{7}k + \frac{31}{10}\right)\left(\frac{5}{3}k + \frac{2}{3}\right)$$

$$\frac{60}{7}k^2 + \frac{361}{42}k + \frac{31}{15}$$

$$246) \left(\frac{24}{5}a - \frac{1}{4}\right)\left(\frac{10}{9}a + \frac{13}{8}\right)$$

$$\frac{16}{3}a^2 + \frac{677}{90}a - \frac{13}{32}$$

$$247) \left(n + \frac{4}{3}\right)\left(\frac{7}{3}n + \frac{5}{3}\right)$$

$$\frac{7}{3}n^2 + \frac{43}{9}n + \frac{20}{9}$$

$$248) \left(\frac{19}{10}p + \frac{11}{2}\right)\left(\frac{7}{4}p - 2\right)$$

$$\frac{133}{40}p^2 + \frac{233}{40}p - 11$$

$$249) \left(\frac{7}{8}x + \frac{4}{9}\right)\left(\frac{2}{5}x - \frac{8}{7}\right)$$

$$\frac{7}{20}x^2 - \frac{37}{45}x - \frac{32}{63}$$

$$250) \left(\frac{2}{7}n + \frac{17}{10}\right)\left(\frac{3}{8}n + \frac{1}{10}\right)$$

$$\frac{3}{28}n^2 + \frac{373}{560}n + \frac{17}{100}$$

$$251) \left(\frac{3}{2}r + \frac{1}{3}\right)\left(\frac{13}{6}r + \frac{6}{5}\right)$$

$$\frac{13}{4}r^2 + \frac{227}{90}r + \frac{2}{5}$$

$$252) \left(\frac{15}{4}m - \frac{20}{7}\right)\left(\frac{22}{7}m + \frac{1}{3}\right)$$

$$\frac{165}{14}m^2 - \frac{1515}{196}m - \frac{20}{21}$$

$$253) \left(\frac{47}{10}x - \frac{7}{2}\right)\left(\frac{33}{7}x + \frac{13}{6}\right)$$

$$\frac{1551}{70}x^2 - \frac{379}{60}x - \frac{91}{12}$$

$$254) \left(\frac{7}{5}b - \frac{19}{7}\right)\left(\frac{4}{3}b + 2\right)$$

$$\frac{28}{15}b^2 - \frac{86}{105}b - \frac{38}{7}$$

$$255) \left(2x + \frac{3}{2}\right)\left(6x - \frac{43}{6}\right)$$

$$12x^2 - \frac{16}{3}x - \frac{43}{4}$$

$$256) \left(n + \frac{44}{9}\right)\left(\frac{17}{4}n + \frac{17}{10}\right)$$

$$\frac{17}{4}n^2 + \frac{2023}{90}n + \frac{374}{45}$$

$$257) \left(\frac{11}{4}r + \frac{33}{8}\right)\left(r - \frac{32}{9}\right)$$

$$\frac{11}{4}r^2 - \frac{407}{72}r - \frac{44}{3}$$

$$258) \left(\frac{3}{2}a - \frac{6}{7}\right)\left(\frac{20}{9}a + 6\right)$$

$$\frac{10}{3}a^2 + \frac{149}{21}a - \frac{36}{7}$$

$$259) \left(\frac{13}{8}n + \frac{29}{10}\right)\left(\frac{9}{2}n - \frac{9}{7}\right)$$

$$\frac{117}{16}n^2 + \frac{3069}{280}n - \frac{261}{70}$$

$$260) \left(\frac{10}{3}x + \frac{11}{3}\right)\left(\frac{17}{8}x + \frac{43}{8}\right)$$

$$\frac{85}{12}x^2 + \frac{617}{24}x + \frac{473}{24}$$

$$261) \left(\frac{29}{5}v + \frac{1}{2}\right)\left(\frac{11}{4}v + 1\right)$$

$$\frac{319}{20}v^2 + \frac{287}{40}v + \frac{1}{2}$$

$$262) \left(\frac{1}{4}p + \frac{5}{2}\right)\left(\frac{19}{6}p + \frac{1}{4}\right)$$

$$\frac{19}{24}p^2 + \frac{383}{48}p + \frac{5}{8}$$

$$263) \left(\frac{1}{3}x - \frac{17}{9}\right)\left(\frac{7}{6}x + \frac{1}{7}\right)$$

$$\frac{7}{18}x^2 - \frac{815}{378}x - \frac{17}{63}$$

$$264) \left(\frac{35}{6}k + \frac{13}{4}\right)\left(\frac{3}{4}k - \frac{3}{2}\right)$$

$$\frac{35}{8}k^2 - \frac{101}{16}k - \frac{39}{8}$$

$$265) \left(\frac{35}{8}n + \frac{1}{10}\right)\left(\frac{44}{9}n - \frac{1}{7}\right)$$

$$\frac{385}{18}n^2 - \frac{49}{360}n - \frac{1}{70}$$

$$266) \left(\frac{7}{2}x + \frac{1}{2}\right)\left(\frac{1}{6}x - \frac{27}{10}\right)$$

$$\frac{7}{12}x^2 - \frac{281}{30}x - \frac{27}{20}$$

$$267) \left(\frac{8}{9}n + \frac{29}{5}\right)\left(\frac{7}{2}n - \frac{2}{3}\right)$$

$$\frac{28}{9}n^2 + \frac{5321}{270}n - \frac{58}{15}$$

$$268) \left(\frac{7}{6}r + \frac{3}{5}\right)\left(\frac{21}{8}r + \frac{10}{9}\right)$$

$$\frac{49}{16}r^2 + \frac{3101}{1080}r + \frac{2}{3}$$

$$269) \left(\frac{2}{3}x + \frac{35}{8}\right)\left(\frac{17}{3}x - \frac{1}{2}\right)$$

$$\frac{34}{9}x^2 + \frac{587}{24}x - \frac{35}{16}$$

$$270) \left(\frac{17}{7}m + \frac{33}{4}\right)\left(\frac{2}{7}m + \frac{59}{10}\right)$$

$$\frac{34}{49}m^2 + \frac{584}{35}m + \frac{1947}{40}$$

$$271) \left(\frac{37}{7}v - \frac{5}{3}\right)\left(\frac{3}{2}v + \frac{10}{7}\right)$$

$$\frac{111}{14}v^2 + \frac{495}{98}v - \frac{50}{21}$$

$$272) \left(\frac{13}{9}b + \frac{4}{3}\right)\left(\frac{8}{5}b - \frac{11}{5}\right)$$

$$\frac{104}{45}b^2 - \frac{47}{45}b - \frac{44}{15}$$

$$273) \left(\frac{5}{2}n + \frac{3}{2}\right)\left(\frac{1}{2}n - 10\right)$$

$$\frac{5}{4}n^2 - \frac{97}{4}n - 15$$

$$274) \left(\frac{17}{10}a - \frac{10}{3}\right)\left(\frac{41}{10}a + \frac{1}{8}\right)$$

$$\frac{697}{100}a^2 - \frac{3229}{240}a - \frac{5}{12}$$

$$275) \left(\frac{17}{10}n + \frac{4}{9}\right)\left(\frac{13}{8}n - \frac{1}{6}\right)$$

$$\frac{221}{80}n^2 + \frac{79}{180}n - \frac{2}{27}$$

$$276) \left(2k + \frac{26}{9}\right)\left(\frac{11}{9}k - \frac{24}{7}\right)$$

$$\frac{22}{9}k^2 - \frac{1886}{567}k - \frac{208}{21}$$

$$277) \left(\frac{17}{5}p + \frac{38}{9}\right)\left(\frac{9}{7}p - \frac{13}{5}\right)$$

$$\frac{153}{35}p^2 - \frac{597}{175}p - \frac{494}{45}$$

$$278) \left(2x + \frac{41}{8}\right)\left(\frac{2}{9}x + \frac{17}{10}\right)$$

$$\frac{4}{9}x^2 + \frac{817}{180}x + \frac{697}{80}$$

$$279) \left(\frac{5}{4}x + \frac{5}{4}\right)\left(\frac{13}{8}x + \frac{3}{5}\right)$$

$$\frac{65}{32}x^2 + \frac{89}{32}x + \frac{3}{4}$$

$$280) \left(\frac{22}{7}r - \frac{5}{4}\right)\left(r - \frac{6}{5}\right)$$

$$\frac{22}{7}r^2 - \frac{703}{140}r + \frac{3}{2}$$

$$281) \left(\frac{5}{4}m + \frac{43}{9}\right)\left(\frac{13}{6}m + 2\right)$$

$$\frac{65}{24}m^2 + \frac{347}{27}m + \frac{86}{9}$$

$$282) \left(\frac{3}{2}n + \frac{11}{6}\right)\left(\frac{11}{6}n - 1\right)$$

$$\frac{11}{4}n^2 + \frac{67}{36}n - \frac{11}{6}$$

$$283) \left(\frac{8}{5}x - 2\right)\left(\frac{13}{7}x + \frac{13}{4}\right)$$

$$\frac{104}{35}x^2 + \frac{52}{35}x - \frac{13}{2}$$

$$284) \left(\frac{2}{3}n + \frac{11}{2}\right)\left(\frac{9}{7}n - \frac{1}{2}\right)$$

$$\frac{6}{7}n^2 + \frac{283}{42}n - \frac{11}{4}$$

$$285) \left(\frac{47}{10}b + 6\right)\left(\frac{1}{2}b + \frac{3}{4}\right)$$

$$\frac{47}{20}b^2 + \frac{261}{40}b + \frac{9}{2}$$

$$286) \left(\frac{15}{8}r + \frac{11}{6}\right)\left(\frac{31}{6}r - \frac{21}{10}\right)$$

$$\frac{155}{16}r^2 + \frac{797}{144}r - \frac{77}{20}$$

$$287) \left(\frac{3}{2}a - 1\right)\left(\frac{31}{7}a + \frac{11}{10}\right)$$

$$\frac{93}{14}a^2 - \frac{389}{140}a - \frac{11}{10}$$

$$288) \left(\frac{1}{9}v - \frac{4}{3}\right)\left(\frac{6}{7}v - \frac{9}{8}\right)$$

$$\frac{2}{21}v^2 - \frac{71}{56}v + \frac{3}{2}$$

$$289) \left(\frac{35}{6}x - \frac{13}{4}\right)\left(\frac{19}{6}x - \frac{3}{5}\right)$$

$$\frac{665}{36}x^2 - \frac{331}{24}x + \frac{39}{20}$$

$$290) \left(\frac{17}{5}x + \frac{8}{9}\right)\left(\frac{31}{6}x - \frac{23}{6}\right)$$

$$\frac{527}{30}x^2 - \frac{2279}{270}x - \frac{92}{27}$$

$$291) \left(\frac{1}{2}x + \frac{5}{3}\right)\left(\frac{11}{9}x + 8\right)$$

$$\frac{11}{18}x^2 + \frac{163}{27}x + \frac{40}{3}$$

$$292) \left(\frac{1}{3}n + 1\right)\left(\frac{19}{7}n + \frac{16}{9}\right)$$

$$\frac{19}{21}n^2 + \frac{625}{189}n + \frac{16}{9}$$

$$293) \left(\frac{7}{10}k + \frac{5}{4}\right)\left(2k + \frac{2}{3}\right)$$

$$\frac{7}{5}k^2 + \frac{89}{30}k + \frac{5}{6}$$

$$294) \left(\frac{1}{6}x + \frac{8}{9}\right)\left(\frac{12}{7}x - \frac{4}{3}\right)$$

$$\frac{2}{7}x^2 + \frac{82}{63}x - \frac{32}{27}$$

$$295) \left(\frac{16}{9}p + \frac{5}{9}\right)\left(\frac{40}{7}p + \frac{5}{6}\right)$$

$$\frac{640}{63}p^2 + \frac{880}{189}p + \frac{25}{54}$$

$$296) \left(\frac{21}{4}n + \frac{4}{3}\right)\left(\frac{9}{2}n - \frac{1}{4}\right)$$

$$\frac{189}{8}n^2 + \frac{75}{16}n - \frac{1}{3}$$

$$297) \left(\frac{8}{5}r - \frac{5}{3}\right)\left(\frac{12}{7}r + \frac{8}{3}\right)$$

$$\frac{96}{35}r^2 + \frac{148}{105}r - \frac{40}{9}$$

$$298) \left(\frac{7}{4}n + \frac{37}{7}\right)\left(\frac{16}{9}n + \frac{29}{6}\right)$$

$$\frac{28}{9}n^2 + \frac{8999}{504}n + \frac{1073}{42}$$

$$299) \left(\frac{5}{7}x + \frac{17}{8}\right)\left(\frac{3}{4}x - \frac{1}{2}\right)$$

$$\frac{15}{28}x^2 + \frac{277}{224}x - \frac{17}{16}$$

$$300) \left(\frac{14}{3}m + \frac{37}{10}\right)\left(\frac{5}{3}m - 3\right)$$

$$\frac{70}{9}m^2 - \frac{47}{6}m - \frac{111}{10}$$

$$301) \left(\frac{1}{2}x - \frac{9}{4}\right)\left(\frac{5}{7}x - \frac{3}{2}\right)$$

$$\frac{5}{14}x^2 - \frac{33}{14}x + \frac{27}{8}$$

$$302) \left(\frac{23}{10}b + \frac{13}{10}\right)\left(\frac{23}{12}b + \frac{5}{6}\right)$$

$$\frac{529}{120}b^2 + \frac{529}{120}b + \frac{13}{12}$$

$$303) \left(\frac{7}{6}v + \frac{73}{6}\right)\left(\frac{16}{3}v + \frac{8}{7}\right)$$

$$\frac{56}{9}v^2 + \frac{596}{9}v + \frac{292}{21}$$

$$304) \left(\frac{8}{9}n + \frac{9}{2}\right)\left(\frac{1}{4}n + \frac{14}{3}\right)$$

$$\frac{2}{9}n^2 + \frac{1139}{216}n + 21$$

$$305) \left(\frac{2}{5}a - \frac{5}{2}\right)\left(a + \frac{28}{5}\right)$$

$$\frac{2}{5}a^2 - \frac{13}{50}a - 14$$

$$306) \left(2n - \frac{11}{8}\right)\left(\frac{37}{10}n - \frac{28}{11}\right)$$

$$\frac{37}{5}n^2 - \frac{8957}{880}n + \frac{7}{2}$$

$$307) \left(\frac{37}{12}k + \frac{31}{9} \right) \left(\frac{8}{7}k - \frac{10}{11} \right)$$

$$\frac{74}{21}k^2 + \frac{1571}{1386}k - \frac{310}{99}$$

$$308) \left(p - \frac{3}{10} \right) \left(\frac{51}{10}p - 7 \right)$$

$$\frac{51}{10}p^2 - \frac{853}{100}p + \frac{21}{10}$$

$$309) \left(\frac{5}{7}m - 2 \right) \left(\frac{17}{10}m + \frac{7}{4} \right)$$

$$\frac{17}{14}m^2 - \frac{43}{20}m - \frac{7}{2}$$

$$310) \left(\frac{16}{11}n + \frac{1}{3} \right) \left(\frac{13}{2}n + \frac{1}{6} \right)$$

$$\frac{104}{11}n^2 + \frac{53}{22}n + \frac{1}{18}$$

$$311) \left(\frac{11}{3}r - \frac{7}{8} \right) \left(2r + \frac{46}{9} \right)$$

$$\frac{22}{3}r^2 + \frac{1835}{108}r - \frac{161}{36}$$

$$312) \left(5x + \frac{1}{4} \right) \left(\frac{2}{3}x + \frac{29}{6} \right)$$

$$\frac{10}{3}x^2 + \frac{73}{3}x + \frac{29}{24}$$

$$313) \left(\frac{19}{4}x + 1 \right) \left(\frac{8}{9}x + \frac{6}{7} \right)$$

$$\frac{38}{9}x^2 + \frac{625}{126}x + \frac{6}{7}$$

$$314) \left(b + \frac{15}{11} \right) \left(\frac{41}{10}b + \frac{74}{11} \right)$$

$$\frac{41}{10}b^2 + \frac{271}{22}b + \frac{1110}{121}$$

$$315) \left(\frac{40}{7}n - 5 \right) \left(2n + \frac{12}{11} \right)$$

$$\frac{80}{7}n^2 - \frac{290}{77}n - \frac{60}{11}$$

$$316) \left(\frac{19}{6}x + \frac{54}{11} \right) \left(12x - \frac{7}{8} \right)$$

$$38x^2 + \frac{29641}{528}x - \frac{189}{44}$$

$$317) \left(\frac{7}{8}a + \frac{11}{5} \right) \left(\frac{14}{9}a + \frac{1}{4} \right)$$

$$\frac{49}{36}a^2 + \frac{5243}{1440}a + \frac{11}{20}$$

$$318) \left(\frac{1}{2}n + \frac{11}{7} \right) \left(\frac{9}{10}n + \frac{72}{11} \right)$$

$$\frac{9}{20}n^2 + \frac{3609}{770}n + \frac{72}{7}$$

$$319) \left(\frac{2}{3}v + \frac{37}{10} \right) \left(\frac{4}{3}v - \frac{4}{3} \right)$$

$$\frac{8}{9}v^2 + \frac{182}{45}v - \frac{74}{15}$$

$$320) \left(\frac{7}{5}v + \frac{3}{5} \right) \left(\frac{29}{8}v + \frac{67}{11} \right)$$

$$\frac{203}{40}v^2 + \frac{4709}{440}v + \frac{201}{55}$$

$$321) \left(\frac{79}{12}x - \frac{19}{10}\right)\left(\frac{37}{9}x - 2\right)$$

$$\frac{2923}{108}x^2 - \frac{944}{45}x + \frac{19}{5}$$

$$322) \left(5n + \frac{37}{10}\right)\left(\frac{23}{5}n + \frac{16}{3}\right)$$

$$23n^2 + \frac{6553}{150}n + \frac{296}{15}$$

$$323) \left(10k - \frac{4}{5}\right)\left(\frac{3}{2}k - 1\right)$$

$$15k^2 - \frac{56}{5}k + \frac{4}{5}$$

$$324) \left(\frac{9}{7}p + 2\right)\left(\frac{19}{11}p - 10\right)$$

$$\frac{171}{77}p^2 - \frac{724}{77}p - 20$$

$$325) \left(\frac{47}{8}x + 1\right)\left(\frac{11}{3}x - \frac{11}{3}\right)$$

$$\frac{517}{24}x^2 - \frac{143}{8}x - \frac{11}{3}$$

$$326) \left(\frac{13}{10}n + 1\right)\left(\frac{13}{11}n + \frac{5}{4}\right)$$

$$\frac{169}{110}n^2 + \frac{247}{88}n + \frac{5}{4}$$

$$327) \left(\frac{1}{2}x + \frac{7}{2}\right)\left(\frac{13}{3}x - \frac{15}{11}\right)$$

$$\frac{13}{6}x^2 + \frac{478}{33}x - \frac{105}{22}$$

$$328) \left(\frac{11}{6}m - \frac{8}{5}\right)\left(\frac{31}{11}m + \frac{7}{10}\right)$$

$$\frac{31}{6}m^2 - \frac{2129}{660}m - \frac{28}{25}$$

$$329) \left(\frac{10}{9}x + \frac{9}{2}\right)\left(\frac{5}{3}x + \frac{3}{2}\right)$$

$$\frac{50}{27}x^2 + \frac{55}{6}x + \frac{27}{4}$$

$$330) \left(\frac{3}{5}n - 4\right)\left(\frac{3}{5}n + \frac{3}{2}\right)$$

$$\frac{9}{25}n^2 - \frac{3}{2}n - 6$$

$$331) \left(\frac{73}{12}b - \frac{42}{11}\right)\left(6b + \frac{3}{2}\right)$$

$$\frac{73}{2}b^2 - \frac{1213}{88}b - \frac{63}{11}$$

$$332) \left(\frac{13}{2}r + 2\right)\left(\frac{11}{6}r + \frac{36}{7}\right)$$

$$\frac{143}{12}r^2 + \frac{779}{21}r + \frac{72}{7}$$

$$333) \left(\frac{44}{9}v - \frac{29}{12}\right)\left(v + \frac{12}{7}\right)$$

$$\frac{44}{9}v^2 + \frac{167}{28}v - \frac{29}{7}$$

$$334) \left(\frac{19}{8}a + \frac{2}{3}\right)\left(\frac{4}{9}a - \frac{4}{3}\right)$$

$$\frac{19}{18}a^2 - \frac{155}{54}a - \frac{8}{9}$$

$$335) \left(9x + \frac{9}{5}\right)\left(\frac{5}{12}x + \frac{27}{8}\right)$$

$$\frac{15}{4}x^2 + \frac{249}{8}x + \frac{243}{40}$$

$$336) \left(\frac{3}{11}n + \frac{31}{6}\right)\left(\frac{20}{3}n + \frac{24}{5}\right)$$

$$\frac{20}{11}n^2 + \frac{17698}{495}n + \frac{124}{5}$$

$$337) \left(\frac{10}{7}x + \frac{7}{5}\right)\left(\frac{5}{7}x + \frac{61}{9}\right)$$

$$\frac{50}{49}x^2 + \frac{673}{63}x + \frac{427}{45}$$

$$338) \left(\frac{1}{2}k - \frac{5}{3}\right)\left(\frac{14}{11}k + \frac{19}{6}\right)$$

$$\frac{7}{11}k^2 - \frac{71}{132}k - \frac{95}{18}$$

$$339) \left(\frac{32}{9}m - \frac{11}{7}\right)\left(\frac{1}{3}m + \frac{47}{12}\right)$$

$$\frac{32}{27}m^2 + \frac{2533}{189}m - \frac{517}{84}$$

$$340) \left(\frac{9}{10}p + 1\right)\left(\frac{24}{11}p + \frac{2}{7}\right)$$

$$\frac{108}{55}p^2 + \frac{939}{385}p + \frac{2}{7}$$

$$341) \left(\frac{31}{9}n - \frac{13}{9}\right)\left(\frac{11}{2}n + \frac{1}{7}\right)$$

$$\frac{341}{18}n^2 - \frac{313}{42}n - \frac{13}{63}$$

$$342) \left(\frac{1}{2}r + \frac{53}{8}\right)\left(\frac{3}{4}r + \frac{10}{7}\right)$$

$$\frac{3}{8}r^2 + \frac{1273}{224}r + \frac{265}{28}$$

$$343) \left(\frac{1}{2}x - \frac{3}{2}\right)\left(\frac{11}{7}x + 2\right)$$

$$\frac{11}{14}x^2 - \frac{19}{14}x - 3$$

$$344) \left(b + \frac{8}{3}\right)\left(\frac{1}{2}b - \frac{17}{9}\right)$$

$$\frac{1}{2}b^2 - \frac{5}{9}b - \frac{136}{27}$$

$$345) \left(\frac{25}{12}v + \frac{5}{3}\right)\left(\frac{1}{2}v - \frac{31}{10}\right)$$

$$\frac{25}{24}v^2 - \frac{45}{8}v - \frac{31}{6}$$

$$346) \left(\frac{4}{3}n + \frac{21}{10}\right)\left(\frac{5}{9}n - \frac{7}{4}\right)$$

$$\frac{20}{27}n^2 - \frac{7}{6}n - \frac{147}{40}$$

$$347) \left(\frac{15}{11}a + \frac{19}{9}\right)\left(\frac{12}{7}a - \frac{9}{8}\right)$$

$$\frac{180}{77}a^2 + \frac{3853}{1848}a - \frac{19}{8}$$

$$348) \left(\frac{1}{2}x - \frac{5}{11}\right)\left(\frac{55}{12}x - 2\right)$$

$$\frac{55}{24}x^2 - \frac{37}{12}x + \frac{10}{11}$$

$$349) \left(\frac{23}{4}n + \frac{23}{12}\right)\left(\frac{25}{6}n + \frac{1}{3}\right)$$

$$\frac{575}{24}n^2 + \frac{713}{72}n + \frac{23}{36}$$

$$350) \left(2v + \frac{5}{2}\right)\left(\frac{13}{12}v + \frac{1}{3}\right)$$

$$\frac{13}{6}v^2 + \frac{27}{8}v + \frac{5}{6}$$

$$351) \left(\frac{26}{3}x + \frac{7}{3}\right)\left(\frac{7}{5}x - \frac{7}{4}\right)$$

$$\frac{182}{15}x^2 - \frac{119}{10}x - \frac{49}{12}$$

$$352) \left(\frac{17}{11}x - \frac{16}{5}\right)\left(\frac{7}{10}x + 2\right)$$

$$\frac{119}{110}x^2 + \frac{234}{275}x - \frac{32}{5}$$

$$353) \left(\frac{23}{6}n + \frac{4}{7}\right)\left(\frac{40}{9}n + \frac{16}{11}\right)$$

$$\frac{460}{27}n^2 + \frac{5624}{693}n + \frac{64}{77}$$

$$354) \left(k + \frac{2}{3}\right)\left(\frac{67}{12}k + 10\right)$$

$$\frac{67}{12}k^2 + \frac{247}{18}k + \frac{20}{3}$$

$$355) \left(\frac{9}{10}p + \frac{27}{8}\right)\left(\frac{109}{12}p + \frac{1}{2}\right)$$

$$\frac{327}{40}p^2 + \frac{4977}{160}p + \frac{27}{16}$$

$$356) \left(\frac{9}{5}r + \frac{19}{6}\right)\left(\frac{3}{4}r + \frac{7}{2}\right)$$

$$\frac{27}{20}r^2 + \frac{347}{40}r + \frac{133}{12}$$

$$357) \left(\frac{33}{5}x - 2\right)\left(\frac{34}{11}x - 8\right)$$

$$\frac{102}{5}x^2 - \frac{3244}{55}x + 16$$

$$358) \left(\frac{11}{6}n + \frac{4}{3}\right)\left(\frac{7}{4}n + \frac{5}{3}\right)$$

$$\frac{77}{24}n^2 + \frac{97}{18}n + \frac{20}{9}$$

$$359) \left(\frac{29}{12}n + \frac{4}{3}\right)\left(\frac{37}{6}n - \frac{1}{2}\right)$$

$$\frac{1073}{72}n^2 + \frac{505}{72}n - \frac{2}{3}$$

$$360) \left(\frac{20}{11}v - \frac{1}{12}\right)\left(\frac{37}{9}v + \frac{5}{9}\right)$$

$$\frac{740}{99}v^2 + \frac{793}{1188}v - \frac{5}{108}$$

$$361) \left(\frac{3}{4}b + \frac{9}{2}\right)\left(\frac{7}{2}b - \frac{12}{5}\right)$$

$$\frac{21}{8}b^2 + \frac{279}{20}b - \frac{54}{5}$$

$$362) \left(\frac{26}{11}x - \frac{11}{10}\right)\left(x + \frac{17}{6}\right)$$

$$\frac{26}{11}x^2 + \frac{1847}{330}x - \frac{187}{60}$$

$$363) \left(\frac{8}{9}m + \frac{33}{8}\right)\left(\frac{25}{6}m + \frac{31}{6}\right)$$

$$\frac{100}{27}m^2 + \frac{9409}{432}m + \frac{341}{16}$$

$$364) \left(\frac{11}{3}x + \frac{14}{3}\right)\left(x + \frac{1}{2}\right)$$

$$\frac{11}{3}x^2 + \frac{13}{2}x + \frac{7}{3}$$

$$365) \left(\frac{1}{2}a + \frac{49}{8}\right)\left(\frac{5}{6}a + \frac{19}{8}\right)$$

$$\frac{5}{12}a^2 + \frac{151}{24}a + \frac{931}{64}$$

$$366) \left(\frac{11}{2}p - 2\right)\left(2p + \frac{9}{11}\right)$$

$$11p^2 + \frac{1}{2}p - \frac{18}{11}$$

$$367) \left(\frac{35}{6}k + \frac{25}{4}\right)\left(11k + \frac{7}{4}\right)$$

$$\frac{385}{6}k^2 + \frac{1895}{24}k + \frac{175}{16}$$

$$368) \left(\frac{11}{6}x + \frac{1}{3}\right)\left(\frac{43}{8}x + \frac{35}{6}\right)$$

$$\frac{473}{48}x^2 + \frac{899}{72}x + \frac{35}{18}$$

$$369) \left(\frac{4}{3}x + \frac{8}{11}\right)\left(\frac{1}{2}x - \frac{18}{11}\right)$$

$$\frac{2}{3}x^2 - \frac{20}{11}x - \frac{144}{121}$$

$$370) \left(\frac{18}{5}n + \frac{47}{7}\right)\left(4n - \frac{3}{4}\right)$$

$$\frac{72}{5}n^2 + \frac{1691}{70}n - \frac{141}{28}$$

$$371) \left(\frac{3}{2}r - \frac{12}{11}\right)\left(\frac{23}{12}r + \frac{59}{10}\right)$$

$$\frac{23}{8}r^2 + \frac{1487}{220}r - \frac{354}{55}$$

$$372) \left(\frac{1}{6}n + \frac{7}{4}\right)\left(\frac{13}{2}n + \frac{7}{5}\right)$$

$$\frac{13}{12}n^2 + \frac{1393}{120}n + \frac{49}{20}$$

$$373) \left(\frac{47}{12}m + 2\right)\left(\frac{5}{4}m + \frac{4}{5}\right)$$

$$\frac{235}{48}m^2 + \frac{169}{30}m + \frac{8}{5}$$

$$374) \left(\frac{37}{7}b - \frac{39}{10}\right)\left(2b + \frac{67}{9}\right)$$

$$\frac{74}{7}b^2 + \frac{9938}{315}b - \frac{871}{30}$$

$$375) \left(\frac{13}{10}x - 12\right)\left(\frac{19}{10}x + \frac{5}{6}\right)$$

$$\frac{247}{100}x^2 - \frac{1303}{60}x - 10$$

$$376) \left(\frac{15}{4}x + \frac{3}{2}\right)\left(\frac{1}{2}x + \frac{1}{2}\right)$$

$$\frac{15}{8}x^2 + \frac{21}{8}x + \frac{3}{4}$$

$$377) \left(v + \frac{6}{5}\right)\left(2v + \frac{44}{9}\right)$$

$$2v^2 + \frac{328}{45}v + \frac{88}{15}$$

$$378) \left(\frac{46}{9}k - \frac{5}{3}\right)\left(2k - \frac{4}{3}\right)$$

$$\frac{92}{9}k^2 - \frac{274}{27}k + \frac{20}{9}$$

$$379) \left(\frac{4}{3}x + \frac{4}{9}\right)\left(x + \frac{16}{11}\right)$$

$$\frac{4}{3}x^2 + \frac{236}{99}x + \frac{64}{99}$$

$$380) \left(a + \frac{37}{12}\right)\left(\frac{6}{7}a + \frac{11}{10}\right)$$

$$\frac{6}{7}a^2 + \frac{131}{35}a + \frac{407}{120}$$

$$381) \left(\frac{23}{7}n - \frac{5}{4}\right)\left(\frac{3}{7}n - \frac{1}{3}\right)$$

$$\frac{69}{49}n^2 - \frac{137}{84}n + \frac{5}{12}$$

$$382) \left(\frac{1}{2}x - \frac{7}{4}\right)\left(\frac{6}{11}x - \frac{29}{12}\right)$$

$$\frac{3}{11}x^2 - \frac{571}{264}x + \frac{203}{48}$$

$$383) \left(\frac{25}{8}n - \frac{7}{3}\right)\left(\frac{1}{2}n - \frac{5}{6}\right)$$

$$\frac{25}{16}n^2 - \frac{181}{48}n + \frac{35}{18}$$

$$384) \left(\frac{9}{5}k + \frac{24}{5}\right)\left(10k - \frac{25}{2}\right)$$

$$18k^2 + \frac{51}{2}k - 60$$

$$385) \left(\frac{47}{12}p - \frac{14}{5}\right)\left(\frac{23}{6}p + \frac{7}{5}\right)$$

$$\frac{1081}{72}p^2 - \frac{21}{4}p - \frac{98}{25}$$

$$386) \left(\frac{5}{4}n - \frac{39}{7}\right)\left(\frac{12}{5}n - \frac{14}{11}\right)$$

$$3n^2 - \frac{11521}{770}n + \frac{78}{11}$$

$$387) \left(\frac{12}{7}x + 1\right)\left(\frac{14}{3}x + \frac{49}{12}\right)$$

$$8x^2 + \frac{35}{3}x + \frac{49}{12}$$

$$388) \left(\frac{4}{11}m + \frac{25}{11}\right)\left(\frac{5}{2}m - \frac{17}{6}\right)$$

$$\frac{10}{11}m^2 + \frac{307}{66}m - \frac{425}{66}$$

$$389) \left(\frac{8}{7}r + \frac{38}{9}\right)\left(\frac{7}{5}r - \frac{1}{4}\right)$$

$$\frac{8}{5}r^2 + \frac{1772}{315}r - \frac{19}{18}$$

$$390) \left(\frac{1}{2}n + \frac{2}{3}\right)\left(\frac{13}{3}n + 2\right)$$

$$\frac{13}{6}n^2 + \frac{35}{9}n + \frac{4}{3}$$

$$391) \left(\frac{19}{3}x - \frac{19}{10}\right)\left(\frac{20}{7}x + \frac{5}{4}\right)$$

$$\frac{380}{21}x^2 + \frac{209}{84}x - \frac{19}{8}$$

$$392) \left(\frac{11}{6}b + \frac{11}{6}\right)\left(\frac{5}{2}b + \frac{3}{2}\right)$$

$$\frac{55}{12}b^2 + \frac{22}{3}b + \frac{11}{4}$$

$$393) \left(2v + \frac{7}{4}\right)\left(\frac{2}{3}v + \frac{9}{7}\right)$$

$$\frac{4}{3}v^2 + \frac{157}{42}v + \frac{9}{4}$$

$$394) \left(\frac{32}{9}x + \frac{9}{2}\right)\left(\frac{18}{7}x + \frac{63}{10}\right)$$

$$\frac{64}{7}x^2 + \frac{1189}{35}x + \frac{567}{20}$$

$$395) \left(\frac{9}{5}x - \frac{1}{3}\right)\left(2x + \frac{21}{8}\right)$$

$$\frac{18}{5}x^2 + \frac{487}{120}x - \frac{7}{8}$$

$$396) \left(\frac{32}{9}k + \frac{11}{5}\right)\left(\frac{2}{11}k + \frac{3}{2}\right)$$

$$\frac{64}{99}k^2 + \frac{86}{15}k + \frac{33}{10}$$

$$397) \left(\frac{3}{2}a + 6\right)\left(\frac{6}{5}a + \frac{11}{7}\right)$$

$$\frac{9}{5}a^2 + \frac{669}{70}a + \frac{66}{7}$$

$$398) \left(\frac{7}{4}p + \frac{27}{8}\right)\left(\frac{3}{4}p - 2\right)$$

$$\frac{21}{16}p^2 - \frac{31}{32}p - \frac{27}{4}$$

$$399) \left(\frac{1}{2}n + \frac{11}{6}\right)\left(\frac{13}{3}n - \frac{1}{6}\right)$$

$$\frac{13}{6}n^2 + \frac{283}{36}n - \frac{11}{36}$$

$$400) \left(\frac{41}{11}x + 1\right)\left(\frac{37}{12}x + \frac{63}{10}\right)$$

$$\frac{1517}{132}x^2 + \frac{17533}{660}x + \frac{63}{10}$$

$$401) \left(\frac{1}{3}x + \frac{5}{6}\right)\left(\frac{1}{2}x + \frac{23}{13}\right)$$

$$\frac{1}{6}x^2 + \frac{157}{156}x + \frac{115}{78}$$

$$402) \left(\frac{7}{2}m - 12\right)\left(-\frac{16}{11}m + \frac{12}{5}\right)$$

$$-\frac{56}{11}m^2 + \frac{1422}{55}m - \frac{144}{5}$$

$$403) \left(\frac{2}{11}r + \frac{13}{8}\right)\left(-\frac{3}{5}r + \frac{24}{17}\right)$$

$$-\frac{6}{55}r^2 - \frac{5373}{7480}r + \frac{39}{17}$$

$$404) \left(-\frac{26}{15}b - 1\right)\left(-\frac{10}{11}b + \frac{125}{16}\right)$$

$$\frac{52}{33}b^2 - \frac{3335}{264}b - \frac{125}{16}$$

$$405) \left(-\frac{23}{13}v + \frac{5}{8}\right)\left(\frac{7}{4}v + \frac{7}{12}\right)$$

$$-\frac{161}{52}v^2 + \frac{77}{1248}v + \frac{35}{96}$$

$$406) \left(\frac{23}{6}n + \frac{29}{19}\right)\left(-\frac{29}{15}n + \frac{7}{12}\right)$$

$$-\frac{667}{90}n^2 - \frac{4889}{6840}n + \frac{203}{228}$$

$$407) \left(\frac{3}{5}x - \frac{7}{5}\right)\left(\frac{4}{5}x - \frac{6}{7}\right)$$

$$\frac{12}{25}x^2 - \frac{286}{175}x + \frac{6}{5}$$

$$408) \left(\frac{55}{17}a + \frac{1}{2}\right)\left(\frac{1}{2}a - \frac{7}{11}\right)$$

$$\frac{55}{34}a^2 - \frac{123}{68}a - \frac{7}{22}$$

$$409) \left(-\frac{4}{11}x + \frac{7}{2}\right)\left(\frac{2}{3}x + 13\right)$$

$$-\frac{8}{33}x^2 - \frac{79}{33}x + \frac{91}{2}$$

$$410) \left(\frac{11}{7}n + \frac{5}{6}\right)\left(\frac{21}{10}n - \frac{31}{20}\right)$$

$$\frac{33}{10}n^2 - \frac{24}{35}n - \frac{31}{24}$$

$$411) \left(\frac{8}{7}k - 1\right)\left(-\frac{1}{3}k + \frac{114}{17}\right)$$

$$-\frac{8}{21}k^2 + \frac{2855}{357}k - \frac{114}{17}$$

$$412) \left(\frac{69}{8}x + 5\right)\left(-20x - \frac{11}{6}\right)$$

$$-\frac{345}{2}x^2 - \frac{1853}{16}x - \frac{55}{6}$$

$$413) \left(\frac{1}{9}n - \frac{4}{11}\right)\left(\frac{13}{9}n + \frac{37}{12}\right)$$

$$\frac{13}{81}n^2 - \frac{217}{1188}n - \frac{37}{33}$$

$$414) \left(-\frac{1}{4}p + \frac{17}{9}\right)\left(\frac{201}{19}p + \frac{143}{16}\right)$$

$$-\frac{201}{76}p^2 + \frac{64745}{3648}p + \frac{2431}{144}$$

$$415) \left(\frac{58}{15}k + \frac{8}{7}\right)\left(-\frac{1}{7}k + \frac{1}{7}\right)$$

$$-\frac{58}{105}k^2 + \frac{286}{735}k + \frac{8}{49}$$

$$416) \left(\frac{93}{10}x + \frac{106}{11}\right)\left(\frac{1}{3}x + \frac{65}{18}\right)$$

$$\frac{31}{10}x^2 + \frac{1619}{44}x + \frac{3445}{99}$$

$$417) \left(-m + \frac{27}{5}\right)\left(m - \frac{5}{3}\right)$$

$$-m^2 + \frac{106}{15}m - 9$$

$$418) \left(\frac{63}{19}n - \frac{18}{11}\right)\left(\frac{3}{2}n - 2\right)$$

$$\frac{189}{38}n^2 - \frac{1899}{209}n + \frac{36}{11}$$

$$419) \left(-\frac{51}{14}r + \frac{3}{5}\right)\left(\frac{14}{3}r + \frac{137}{10}\right)$$

$$-17r^2 - \frac{1319}{28}r + \frac{411}{50}$$

$$420) \left(\frac{131}{12}x + \frac{13}{10}\right)\left(-20x - \frac{5}{3}\right)$$

$$-\frac{655}{3}x^2 - \frac{1591}{36}x - \frac{13}{6}$$

$$421) \left(-\frac{59}{20}n + \frac{33}{8}\right)\left(-\frac{10}{3}n - 2\right)$$

$$\frac{59}{6}n^2 - \frac{157}{20}n - \frac{33}{4}$$

$$422) \left(\frac{2}{9}b + \frac{53}{19}\right)\left(\frac{13}{2}b - \frac{7}{12}\right)$$

$$\frac{13}{9}b^2 + \frac{9235}{513}b - \frac{371}{228}$$

$$423) \left(\frac{14}{15}v + \frac{16}{11}\right)\left(\frac{3}{11}v + \frac{44}{19}\right)$$

$$\frac{14}{55}v^2 + \frac{88216}{34485}v + \frac{64}{19}$$

$$424) \left(-2x + \frac{55}{8}\right)\left(2x - \frac{22}{17}\right)$$

$$-4x^2 + \frac{1111}{68}x - \frac{605}{68}$$

$$425) \left(-\frac{12}{5}x + \frac{8}{3}\right)\left(\frac{143}{17}x - \frac{2}{3}\right)$$

$$-\frac{1716}{85}x^2 + \frac{6128}{255}x - \frac{16}{9}$$

$$426) \left(-17k - \frac{2}{3}\right)\left(-\frac{19}{18}k + \frac{8}{7}\right)$$

$$\frac{323}{18}k^2 - \frac{3539}{189}k - \frac{16}{21}$$

$$427) \left(\frac{138}{19}a - \frac{3}{4}\right)\left(-\frac{18}{5}a + \frac{8}{7}\right)$$

$$-\frac{2484}{95}a^2 + \frac{14631}{1330}a - \frac{6}{7}$$

$$428) \left(\frac{5}{4}x - \frac{12}{7}\right)\left(\frac{13}{5}x + \frac{11}{7}\right)$$

$$\frac{13}{4}x^2 - \frac{349}{140}x - \frac{132}{49}$$

$$429) \left(\frac{89}{6}p + \frac{29}{4}\right)\left(\frac{109}{16}p + \frac{11}{8}\right)$$

$$\frac{9701}{96}p^2 + \frac{13399}{192}p + \frac{319}{32}$$

$$430) \left(-\frac{8}{5}n - 2\right)\left(\frac{51}{16}n - \frac{51}{14}\right)$$

$$-\frac{51}{10}n^2 - \frac{153}{280}n + \frac{51}{7}$$

$$431) \left(\frac{15}{8}r + \frac{115}{18}\right)\left(\frac{2}{17}r + \frac{16}{11}\right)$$

$$\frac{15}{68}r^2 + \frac{5855}{1683}r + \frac{920}{99}$$

$$432) \left(\frac{11}{5}x - \frac{5}{3}\right)\left(\frac{76}{15}x + \frac{9}{19}\right)$$

$$\frac{836}{75}x^2 - \frac{6329}{855}x - \frac{15}{19}$$

$$433) \left(-\frac{7}{4}b + \frac{5}{7}\right)\left(\frac{87}{8}b + \frac{287}{16}\right)$$

$$-\frac{609}{32}b^2 - \frac{10583}{448}b + \frac{205}{16}$$

$$434) \left(-\frac{1}{2}n + \frac{53}{9}\right)\left(\frac{2}{19}n - \frac{11}{9}\right)$$

$$-\frac{1}{19}n^2 + \frac{421}{342}n - \frac{583}{81}$$

$$435) \left(\frac{131}{17}m + \frac{61}{6}\right)\left(\frac{1}{2}m - \frac{8}{3}\right)$$

$$\frac{131}{34}m^2 - \frac{3155}{204}m - \frac{244}{9}$$

$$436) \left(\frac{10}{9}v + \frac{13}{20}\right)\left(\frac{7}{9}v + \frac{20}{7}\right)$$

$$\frac{70}{81}v^2 + \frac{4637}{1260}v + \frac{13}{7}$$

$$437) \left(-6n - \frac{22}{15}\right)\left(\frac{13}{6}n - \frac{2}{3}\right)$$

$$-13n^2 + \frac{37}{45}n + \frac{44}{45}$$

$$438) \left(\frac{11}{13}a - \frac{3}{2}\right)\left(\frac{44}{13}a + \frac{49}{6}\right)$$

$$\frac{484}{169}a^2 + \frac{11}{6}a - \frac{49}{4}$$

$$439) \left(6x - \frac{8}{19}\right)\left(\frac{15}{2}x + \frac{61}{7}\right)$$

$$45x^2 + \frac{6534}{133}x - \frac{488}{133}$$

$$440) \left(\frac{29}{8}x + \frac{1}{4}\right)\left(-\frac{17}{6}x + \frac{5}{4}\right)$$

$$-\frac{493}{48}x^2 + \frac{367}{96}x + \frac{5}{16}$$

$$441) \left(\frac{149}{14}n - 2\right)\left(\frac{3}{4}n - \frac{8}{5}\right)$$

$$\frac{447}{56}n^2 - \frac{1297}{70}n + \frac{16}{5}$$

$$442) \left(\frac{59}{12}m + \frac{1}{2}\right)\left(\frac{3}{2}m + \frac{24}{13}\right)$$

$$\frac{59}{8}m^2 + \frac{511}{52}m + \frac{12}{13}$$

$$443) \left(\frac{16}{9}p - \frac{7}{6}\right)\left(-\frac{30}{11}p + \frac{30}{17}\right)$$

$$-\frac{160}{33}p^2 + \frac{3545}{561}p - \frac{35}{17}$$

$$444) \left(\frac{61}{6}x - \frac{11}{9}\right)\left(\frac{4}{3}x + \frac{28}{9}\right)$$

$$\frac{122}{9}x^2 + 30x - \frac{308}{81}$$

$$445) \left(-\frac{31}{10}k - \frac{7}{2}\right)\left(-\frac{4}{5}k - \frac{47}{18}\right)$$

$$\frac{62}{25}k^2 + \frac{1961}{180}k + \frac{329}{36}$$

$$446) \left(-\frac{2}{15}n + \frac{3}{4}\right)\left(\frac{11}{7}n + \frac{147}{16}\right)$$

$$-\frac{22}{105}n^2 - \frac{13}{280}n + \frac{441}{64}$$

$$447) \left(17m + \frac{85}{6}\right)\left(\frac{37}{18}m + \frac{41}{14}\right)$$

$$\frac{629}{18}m^2 + \frac{59653}{756}m + \frac{3485}{84}$$

$$448) \left(-\frac{8}{19}x - \frac{24}{19}\right)\left(\frac{23}{4}x - \frac{47}{14}\right)$$

$$-\frac{46}{19}x^2 - \frac{778}{133}x + \frac{564}{133}$$

$$449) \left(\frac{6}{5}r + \frac{31}{20}\right)\left(\frac{4}{17}r + \frac{5}{7}\right)$$

$$\frac{24}{85}r^2 + \frac{727}{595}r + \frac{31}{28}$$

$$450) \left(\frac{64}{11}v + \frac{1}{4}\right)\left(\frac{37}{12}v - \frac{32}{17}\right)$$

$$\frac{592}{33}v^2 - \frac{91385}{8976}v - \frac{8}{17}$$

$$451) \left(\frac{84}{17}n + \frac{39}{4}\right)\left(\frac{163}{15}n + \frac{7}{4}\right)$$

$$\frac{4564}{85}n^2 + \frac{38963}{340}n + \frac{273}{16}$$

$$452) \left(\frac{9}{5}x - \frac{56}{17}\right)\left(-5x + \frac{8}{3}\right)$$

$$-9x^2 + \frac{1808}{85}x - \frac{448}{51}$$

$$453) \left(\frac{5}{14}b + \frac{7}{17}\right)\left(\frac{117}{16}b + \frac{171}{16}\right)$$

$$\frac{585}{224}b^2 + \frac{26001}{3808}b + \frac{1197}{272}$$

$$454) \left(-\frac{1}{2}x + \frac{115}{14}\right)\left(\frac{13}{14}x - \frac{19}{14}\right)$$

$$-\frac{13}{28}x^2 + \frac{407}{49}x - \frac{2185}{196}$$

$$455) \left(-\frac{29}{18}x + \frac{1}{4}\right)\left(-x + \frac{5}{6}\right)$$

$$\frac{29}{18}x^2 - \frac{43}{27}x + \frac{5}{24}$$

$$456) \left(\frac{67}{15}a - \frac{11}{4}\right)\left(-\frac{43}{16}a - \frac{17}{12}\right)$$

$$-\frac{2881}{240}a^2 + \frac{3061}{2880}a + \frac{187}{48}$$

$$457) \left(-\frac{5}{3}p + \frac{17}{15}\right)\left(\frac{69}{20}p + \frac{1}{6}\right)$$

$$-\frac{23}{4}p^2 + \frac{3269}{900}p + \frac{17}{90}$$

$$458) \left(-14x + \frac{11}{6}\right)\left(\frac{69}{16}x + \frac{5}{6}\right)$$

$$-\frac{483}{8}x^2 - \frac{361}{96}x + \frac{55}{36}$$

$$459) \left(-\frac{17}{13}k + \frac{17}{3}\right)\left(\frac{13}{16}k + \frac{85}{9}\right)$$

$$-\frac{17}{16}k^2 - \frac{14501}{1872}k + \frac{1445}{27}$$

$$460) \left(\frac{151}{17}n + \frac{53}{12}\right)\left(-\frac{5}{4}n - \frac{23}{14}\right)$$

$$-\frac{755}{68}n^2 - \frac{114887}{5712}n - \frac{1219}{168}$$

$$461) \left(\frac{5}{14}m + 2\right)\left(-\frac{1}{5}m - \frac{1}{5}\right)$$

$$-\frac{1}{14}m^2 - \frac{33}{70}m - \frac{2}{5}$$

$$462) \left(\frac{5}{18}n + \frac{69}{13}\right)\left(\frac{4}{3}n + \frac{17}{4}\right)$$

$$\frac{10}{27}n^2 + \frac{7729}{936}n + \frac{1173}{52}$$

$$463) \left(\frac{13}{4}r - \frac{3}{2}\right)\left(\frac{11}{4}r - 10\right)$$

$$\frac{143}{16}r^2 - \frac{293}{8}r + 15$$

$$464) \left(\frac{124}{15}b - \frac{5}{6}\right)\left(-\frac{10}{3}b - \frac{1}{3}\right)$$

$$-\frac{248}{9}b^2 + \frac{1}{45}b + \frac{5}{18}$$

$$465) \left(-\frac{37}{20}x + \frac{52}{9}\right)\left(\frac{61}{7}x + \frac{61}{9}\right)$$

$$-\frac{2257}{140}x^2 + \frac{47641}{1260}x + \frac{3172}{81}$$

$$466) \left(\frac{5}{9}a + \frac{18}{17}\right)\left(\frac{17}{11}a - \frac{18}{19}\right)$$

$$\frac{85}{99}a^2 + \frac{232}{209}a - \frac{324}{323}$$

$$467) \left(\frac{10}{3}x + \frac{119}{15}\right)\left(-\frac{11}{4}x - \frac{15}{8}\right)$$

$$-\frac{55}{6}x^2 - \frac{421}{15}x - \frac{119}{8}$$

$$468) \left(\frac{24}{19}n - \frac{17}{10}\right)\left(-\frac{28}{17}n + 1\right)$$

$$-\frac{672}{323}n^2 + \frac{386}{95}n - \frac{17}{10}$$

$$469) \left(\frac{9}{5}v + 3\right)\left(-v + \frac{1}{3}\right)$$

$$-\frac{9}{5}v^2 - \frac{12}{5}v + 1$$

$$470) \left(\frac{133}{20}x + \frac{5}{4}\right)\left(\frac{49}{6}x - \frac{1}{2}\right)$$

$$\frac{6517}{120}x^2 + \frac{413}{60}x - \frac{5}{8}$$

$$471) \left(\frac{17}{7}k + \frac{123}{20}\right)\left(-k + \frac{1}{2}\right)$$

$$-\frac{17}{7}k^2 - \frac{691}{140}k + \frac{123}{40}$$

$$472) \left(-\frac{21}{11}n + \frac{69}{14}\right)\left(\frac{3}{5}n - \frac{11}{9}\right)$$

$$-\frac{63}{55}n^2 + \frac{1111}{210}n - \frac{253}{42}$$

$$473) \left(-\frac{21}{8}m + \frac{13}{7}\right)\left(\frac{13}{8}m - \frac{43}{12}\right)$$

$$-\frac{273}{64}m^2 + \frac{2783}{224}m - \frac{559}{84}$$

$$474) \left(\frac{17}{5}p - \frac{5}{14}\right)\left(\frac{18}{11}p + \frac{5}{3}\right)$$

$$\frac{306}{55}p^2 + \frac{1174}{231}p - \frac{25}{42}$$

$$475) \left(-2x - \frac{2}{3}\right)\left(-\frac{4}{3}x - \frac{21}{13}\right)$$

$$\frac{8}{3}x^2 + \frac{482}{117}x + \frac{14}{13}$$

$$476) \left(-2x + \frac{93}{10}\right)\left(-\frac{19}{16}x - \frac{3}{2}\right)$$

$$\frac{19}{8}x^2 - \frac{1287}{160}x - \frac{279}{20}$$

$$477) \left(\frac{13}{12}n - \frac{10}{13}\right)\left(\frac{76}{9}n + \frac{6}{5}\right)$$

$$\frac{247}{27}n^2 - \frac{6079}{1170}n - \frac{12}{13}$$

$$478) \left(-\frac{2}{3}r - \frac{17}{9}\right)\left(-\frac{3}{2}r + \frac{5}{3}\right)$$

$$r^2 + \frac{31}{18}r - \frac{85}{27}$$

$$479) \left(\frac{37}{4}x + \frac{113}{14}\right)\left(-\frac{5}{9}x + 16\right)$$

$$-\frac{185}{36}x^2 + \frac{18083}{126}x + \frac{904}{7}$$

$$480) \left(-\frac{22}{13}n + \frac{17}{16}\right)\left(-\frac{17}{10}n + \frac{14}{11}\right)$$

$$\frac{187}{65}n^2 - \frac{8237}{2080}n + \frac{119}{88}$$

$$481) \left(\frac{23}{9}m + \frac{85}{12}\right)\left(-\frac{8}{5}m - \frac{13}{12}\right)$$

$$-\frac{184}{45}m^2 - \frac{1523}{108}m - \frac{1105}{144}$$

$$482) \left(-\frac{27}{10}b + \frac{32}{7}\right)\left(\frac{2}{7}b + \frac{23}{6}\right)$$

$$-\frac{27}{35}b^2 - \frac{8863}{980}b + \frac{368}{21}$$

$$483) \left(-\frac{3}{2}v + \frac{129}{13}\right)\left(\frac{53}{18}v + \frac{37}{8}\right)$$

$$-\frac{53}{12}v^2 + \frac{13903}{624}v + \frac{4773}{104}$$

$$484) \left(-\frac{43}{14}x + \frac{1}{4}\right)\left(\frac{167}{20}x - \frac{5}{4}\right)$$

$$-\frac{7181}{280}x^2 + \frac{3319}{560}x - \frac{5}{16}$$

$$485) \left(\frac{19}{12}a + \frac{76}{9}\right)\left(-\frac{2}{5}a + \frac{30}{7}\right)$$

$$-\frac{19}{30}a^2 + \frac{2147}{630}a + \frac{760}{21}$$

$$486) \left(\frac{11}{18}p + \frac{12}{7}\right)\left(-3p + \frac{20}{3}\right)$$

$$-\frac{11}{6}p^2 - \frac{202}{189}p + \frac{80}{7}$$

$$487) \left(-\frac{171}{16}x - \frac{1}{5}\right)\left(\frac{1}{2}x + \frac{3}{4}\right)$$

$$-\frac{171}{32}x^2 - \frac{2597}{320}x - \frac{3}{20}$$

$$488) \left(\frac{58}{9}k + \frac{177}{20}\right)\left(-\frac{1}{2}k + \frac{131}{20}\right)$$

$$-\frac{29}{9}k^2 + \frac{13603}{360}k + \frac{23187}{400}$$

$$489) \left(\frac{9}{20}r - \frac{6}{7} \right) \left(\frac{49}{10}r - \frac{65}{19} \right)$$

$$\frac{441}{200}r^2 - \frac{2181}{380}r + \frac{390}{133}$$

$$490) \left(-\frac{11}{17}x - \frac{13}{12} \right) \left(\frac{15}{19}x - \frac{8}{11} \right)$$

$$-\frac{165}{323}x^2 - \frac{497}{1292}x + \frac{26}{33}$$

$$491) \left(\frac{3}{2}m + \frac{37}{15} \right) \left(\frac{2}{3}m + \frac{4}{3} \right)$$

$$m^2 + \frac{164}{45}m + \frac{148}{45}$$

$$492) \left(\frac{86}{13}n + \frac{95}{17} \right) \left(\frac{29}{16}n - \frac{27}{17} \right)$$

$$\frac{1247}{104}n^2 - \frac{1337}{3536}n - \frac{2565}{289}$$

$$493) \left(-\frac{33}{17}x + 1 \right) \left(\frac{106}{17}x + \frac{19}{15} \right)$$

$$-\frac{3498}{289}x^2 + \frac{321}{85}x + \frac{19}{15}$$

$$494) \left(-\frac{5}{4}b + 1 \right) \left(-\frac{1}{5}b + \frac{1}{4} \right)$$

$$\frac{1}{4}b^2 - \frac{41}{80}b + \frac{1}{4}$$

$$495) \left(\frac{23}{14}n + \frac{7}{4} \right) \left(\frac{19}{2}n - \frac{11}{17} \right)$$

$$\frac{437}{28}n^2 + \frac{14815}{952}n - \frac{77}{68}$$

$$496) \left(\frac{1}{2}v + \frac{3}{2} \right) \left(-12v + \frac{61}{10} \right)$$

$$-6v^2 - \frac{299}{20}v + \frac{183}{20}$$

$$497) \left(\frac{73}{18}x + \frac{1}{2} \right) \left(\frac{22}{15}x + \frac{23}{12} \right)$$

$$\frac{803}{135}x^2 + \frac{9187}{1080}x + \frac{23}{24}$$

$$498) \left(-n - \frac{1}{2} \right) \left(-\frac{5}{9}n + \frac{4}{9} \right)$$

$$\frac{5}{9}n^2 - \frac{1}{6}n - \frac{2}{9}$$

$$499) \left(\frac{13}{6}a + \frac{91}{9} \right) \left(\frac{21}{2}a - \frac{25}{12} \right)$$

$$\frac{91}{4}a^2 + \frac{7319}{72}a - \frac{2275}{108}$$

$$500) \left(-2k + \frac{4}{3} \right) \left(\frac{16}{17}k + \frac{3}{5} \right)$$

$$-\frac{32}{17}k^2 + \frac{14}{255}k + \frac{4}{5}$$