Linear and affine functions - slope-intercept form

Write down slope-intercept from standard form:

1) \(5x + 3y = -14\)

2) \(13x - 8y = -12\)

3) \(3x + 2y = -14\)

4) \(6x - y = 0\)

5) \(2x + y = 3\)

6) \(2x + y = 6\)

7) \(5x - 2y = -16\)

8) \(x - 2y = -2\)

9) \(7x + 6y = -24\)

10) \(13x - 14y = -8\)

11) \(3x - y = -17\)

12) \(11x + y = -3\)

13) \(x - y = 1\)

14) \(x + y = -1\)

15) \(3x - 4y = 32\)

16) \(13x - 2y = -12\)

17) \(12x - 5y = 30\)

18) \(x = 8\)

19) \(3x - 7y = 0\)

20) \(9x + 5y = 35\)
21) \(3x - y = -8\) 
22) \(3x - 2y = 10\) 

23) \(10x + y = 2\) 
24) \(x - y = -1\) 

25) \(x + 7y = 7\) 
26) \(2x + 13y = -23\) 

27) \(x - 2y = -12\) 
28) \(4x - 3y = -18\) 

29) \(13x + 6y = 48\) 
30) \(x + 3y = 18\) 

31) \(x = 1\) 
32) \(11x + 7y = -5\) 

33) \(x = -3\) 
34) \(x + 2y = 2\) 

35) \(5x - 3y = -18\) 
36) \(3x + 5y = -20\) 

37) \(5x + 3y = -9\) 
38) \(2x - 5y = 30\) 

39) \(5x - 3y = 2\) 
40) \(8x + 3y = 0\) 

41) \(x + y = 4\) 
42) \(9x - 7y = -42\)
43) \( x + 3y = -8 \)
44) \( x = 5 \)

45) \( 14x - 5y = -30 \)
46) \( 3x + 8y = 64 \)

47) \( 5x + 3y = -18 \)
48) \( 13x - 8y = 48 \)

49) \( 3x - 5y = 25 \)
50) \( 8x + y = 6 \)

51) \( 5x + 4y = -8 \)
52) \( 9x + 2y = -6 \)

53) \( x + y = 8 \)
54) \( 2x - y = 4 \)

55) \( 7x - 4y = 20 \)
56) \( 2x - 3y = -13 \)

57) \( 2x - y = 3 \)
58) \( x - y = -7 \)

59) \( x + 2y = -12 \)
60) \( 15x + 7y = 49 \)

61) \( x = 7 \)
62) \( 3x - 7y = -21 \)

63) \( x - 3y = 18 \)
64) \( x - 2y = -4 \)
65) \( x + 2y = 4 \)  \quad 66) \( 2x - y = -16 \)

67) \( x - 9y = 12 \)  \quad 68) \( y = -4 \)

69) \( 2x - y = -6 \)  \quad 70) \( 9x - 2y = -16 \)

71) \( 5x + y = 2 \)  \quad 72) \( 7x - y = -1 \)

73) \( 4x + 5y = 15 \)  \quad 74) \( y = 1 \)

75) \( x + y = -3 \)  \quad 76) \( x - 2y = 0 \)

77) \( 3x - 8y = 50 \)  \quad 78) \( x + 10y = -74 \)

79) \( x - 4y = -28 \)  \quad 80) \( 2x + y = 1 \)

81) \( x - 4y = -4 \)  \quad 82) \( 6x + y = 0 \)

83) \( x + y = 1 \)  \quad 84) \( 8x - y = 36 \)

85) \( 11x + 9y = -28 \)  \quad 86) \( 13x + y = -8 \)
87) $2x - 5y = -5$

88) $2x + y = 0$

89) $5x + 2y = -12$

90) $3x - y = 8$

91) $x + 7y = 28$

92) $15x + y = 7$

93) $5x + 6y = -48$

94) $7x + 6y = -48$

95) $2x + 3y = -6$

96) $6x - 5y = -41$

97) $x + 4y = -12$

98) $9x + 5y = 5$

99) $11x - 7y = -49$

100) $3x - 2y = -12$

**Write down slope-intercept from point-slope form:**

101) $y + 4 = \frac{3}{5}(x + 5)$

102) $y = 0$

103) $y - 3 = 5(x - 1)$

104) $y - 2 = \frac{2}{5}(x - 4)$

105) $y + 5 = -\frac{5}{2}(x - 2)$

106) $y + 4 = \frac{5}{4}(x + 4)$
107) \( y - 3 = -2(x - 1) \)

108) \( y - 3 = \frac{1}{2}(x + 4) \)

109) \( y - 5 = -9(x + 1) \)

110) \( y + 3 = -\frac{3}{4}(x - 4) \)

111) \( y + 3 = 3(x - 1) \)

112) \( y - 5 = -4(x + 1) \)

113) \( y - 2 = 7(x - 1) \)

114) \( y - 5 = -3(x + 2) \)

115) \( y + 5 = -\frac{1}{2}(x - 5) \)

116) \( y - 5 = -\frac{1}{5}(x + 5) \)

117) \( y = -\frac{5}{4}(x + 3) \)

118) \( y + 5 = -\frac{9}{4}(x - 4) \)

119) \( y + 2 = -(x + 2) \)

120) \( y - 5 = \frac{8}{5}(x - 5) \)

121) \( y + 4 = -\frac{1}{6}(x - 2) \)

122) \( y + 3 = x + 2 \)

123) \( y = -\frac{1}{2}(x - 4) \)

124) \( y + 3 = -\frac{1}{2}(x + 2) \)
126) \( y = -5(x + 1) \)

127) \( y - 1 = -\frac{3}{2}(x + 4) \)

128) \( y + 2 = -\frac{2}{5}(x - 5) \)

129) \( y - 4 = \frac{9}{4}(x - 4) \)

130) \( y = -3(x - 1) \)

131) \( y - 5 = -\frac{10}{3}(x + 3) \)

132) \( y - 5 = \frac{5}{4}(x - 4) \)

133) \( y + 4 = -\frac{1}{6}(x - 1) \)

134) \( y - 3 = -\frac{8}{9}(x + 4) \)

135) \( y - 5 = x - 3 \)

136) \( y + 5 = -\frac{3}{4}(x - 4) \)

137) \( y - 4 = -2(x + 3) \)

138) \( y - 3 = -(x - 2) \)

139) \( y + 1 = -\frac{1}{4}(x - 4) \)

140) \( y - 4 = -\frac{1}{6}(x + 4) \)

141) \( y + 1 = -\frac{3}{4}(x + 4) \)

142) \( y + 2 = x + 3 \)
143) \[ y - 1 = -\frac{2}{7}(x - 5) \]

144) \[ y + 2 = -2(x - 3) \]

145) \[ y + 5 = -\frac{2}{5}(x - 5) \]

146) \[ y + 4 = 2(x + 1) \]

147) \[ y + 3 = -(x + 5) \]

148) \[ y - 5 = \frac{3}{7}(x - 4) \]

149) \[ y + 3 = -\frac{5}{4}(x - 4) \]

150) \[ y + 3 = 2(x + 2) \]

151) \[ y + 4 = \frac{8}{9}(x + 5) \]

152) \[ y - 4 = -\frac{4}{3}(x + 3) \]

153) \[ y - 1 = -2(x - 1) \]

154) \[ y - 5 = 0 \]

155) \[ y = -\frac{4}{5}(x - 5) \]

156) \[ y = -\frac{3}{4}(x + 3) \]

157) \[ y - 3 = \frac{3}{4}(x - 4) \]

158) \[ y + 1 = -3(x - 1) \]

159) \[ y - 2 = 2x \]

160) \[ y = -\frac{5}{4}(x + 4) \]
161) \( y - 2 = -\frac{3}{2}(x + 4) \)  
162) \( y + 4 = -\frac{4}{5}(x - 5) \)

163) \( y - 5 = \frac{4}{5}(x - 5) \)  
164) \( y - 5 = -2(x + 3) \)

165) \( y + 4 = \frac{7}{8}(x + 4) \)  
166) \( y + 3 = \frac{5}{4}(x + 3) \)

167) \( y + 3 = 0 \)  
168) \( y + 3 = -3(x - 1) \)

169) \( y = -(x - 4) \)  
170) \( y + 5 = 2(x + 1) \)

171) \( y - 5 = 2(x - 1) \)  
172) \( y - 2 = \frac{1}{2}(x + 4) \)

173) \( 0 = x + 1 \)  
174) \( y + 3 = \frac{3}{2}(x + 4) \)

175) \( y - 4 = -(x - 2) \)  
176) \( y + 3 = \frac{1}{4}(x + 4) \)

177) \( y = -\frac{3}{2}(x + 1) \)  
178) \( y - 5 = -(x + 5) \)
179) \( y - 4 = \frac{2}{7}(x - 3) \)  

180) \( y + 1 = -\frac{5}{4}(x - 4) \)

181) \( y - 5 = -10(x + 1) \)  

182) \( 0 = x - 5 \)

183) \( y + 4 = \frac{4}{3}(x + 3) \)  

184) \( y - 3 = -\frac{1}{3}(x + 3) \)

185) \( y - 3 = -\frac{6}{5}(x + 5) \)  

186) \( y + 5 = -(x - 4) \)

187) \( y - 2 = \frac{2}{5}(x - 5) \)  

188) \( y - 2 = \frac{4}{7}(x - 4) \)

189) \( y + 3 = -7(x - 1) \)  

190) \( y - 1 = 2(x - 3) \)

191) \( y - 1 = \frac{1}{2}(x - 3) \)  

192) \( 0 = x - 2 \)

193) \( y - 2 = -7(x - 1) \)  

194) \( y + 5 = -2(x - 3) \)

195) \( y + 2 = -\frac{3}{4}(x + 4) \)  

196) \( y = \frac{5}{3}x \)
197) \( y = \frac{1}{2}(x - 2) \)
198) \( y - 5 = -(x + 3) \)

199) \( y - 1 = -\frac{1}{2}(x - 4) \)
200) \( y + 5 = -\frac{4}{3}(x + 1) \)

Write down slope-intercept from given form:

201) \( 3x - 5y - 25 = 0 \)
202) \(-4x = -5 + y \)

203) \( 0 = -3y - 2x + 9 \)
204) \( 5x + 8 = 2y \)

205) \( 0 = x + \frac{2}{5}y + \frac{2}{5} \)
206) \(-2x - 1 = y \)

207) \( 12 + 5x + 4y = 0 \)
208) \( 0 = -1 + x \)

209) \(-8 = -2y + \frac{2}{3}x \)
210) \(-4 - 4y = x \)

211) \(-x = y + 5 \)
212) \(-6x - 21 - 3y = 0 \)

213) \( 0 = 1 - \frac{1}{5}y - \frac{1}{5}x \)
214) \(-\frac{5}{4}x = 5 - y \)
215) \(2y = x\) 

216) \(10 = x - 5y\)

217) \(6 = 4x - 2y\) 

218) \(4 + 7x = -2y\)

219) \(2 - y + \frac{1}{2}x = 0\) 

220) \(-5y = 17 - 2x\)

221) \(-12 = -4y + x\) 

222) \(\frac{1}{6}y = -x - \frac{1}{3}\)

223) \(-5y = 16 - 9x\) 

224) \(-7x = 3y + 26\)

225) \(1 - \frac{1}{4}x + \frac{7}{20}y = 0\) 

226) \(y - x = -1\)

227) \(3 + 2x = -y\) 

228) \(-1 - y = 0\)

229) \(-5x - 4y = 0\) 

230) \(-3x + 1 = -y\)

231) \(0 = y - 6x - 4\) 

232) \(-8 - 4y = -3x\)

233) \(3 - x = -y\) 

234) \(0 = -10 - 2y + x\)
235) \(4y - 3x = -20\)  
236) \(-2 + x = 0\)

237) \(10 - 7y = -5x\)  
238) \(3 + x = -y\)

239) \(-y + 4 + x = 0\)  
240) \(4x = -15 + 5y\)

241) \(0 = 5x - 6 - y\)  
242) \(-5 + 5y = -x\)

243) \(-4 = y\)  
244) \(-2 - y = x\)

245) \(3x - 9 = 0\)  
246) \(2x = -5 + 3y\)

247) \(-16 + 4y = 6x\)  
248) \(15 - 7x = 5y\)

249) \(-6 = -2y + 5x\)  
250) \(-6 = -3x + 2y\)

251) \(-5x - 10 = 7y\)  
252) \(12 - 5x = 4y\)

253) \(0 = -y - 3 - 3x\)  
254) \(1 = 3x - 4y\)

255) \(0 = -15 - 3y - 10x\)  
256) \(\frac{6}{5}x = 3 + 3y\)
257) $-2 = x - y$

258) $2x = -6 - 4y$

259) $-y - x + 3 = 0$

260) $0 = -30 + 3x + 9y$

261) $-1 - y = 3x$

262) $-2x - y - 2 = 0$

263) $-6 + x = 2y$

264) $-2y = -6 - 3x$

265) $6 - 6y + 9x = 0$

266) $-y - x = 1$

267) $-6y = -x + 29$

268) $-9x + 60 = 21y$

269) $8 = x - 4y$

270) $20 + 4y = -7x$

271) $-2y + x = 4$

272) $-2 - x = 0$

273) $-1 + \frac{3}{10}x = \frac{1}{5}y$

274) $-5y = -25 - x$

275) $15x = -3y - 6$

276) $0 = -x - 5$

277) $2 = -y - \frac{5}{3}x$

278) $-8x + 5 - y = 0$
279) \(0 = y + 5\)  
280) \(4x - 2y = -6\)  

281) \(-y + 5 = 9x\)  
282) \(5x - 3 - 7y = 0\)  

283) \(-7y - 5x - 8 = 0\)  
284) \(0 = -2 - 3x - 2y\)  

285) \(y - 5 = 2x\)  
286) \(1 - 4x - y = 0\)  

287) \(6 - 10y = -4x\)  
288) \(3y = -2x + 5\)  

289) \(4 = y\)  
290) \(-2y + 5x = 0\)  

291) \(-y - \frac{25}{2} = -\frac{5}{2}x\)  
292) \(-7x - 3 = y\)  

293) \(x = -y + 1\)  
294) \(3x + 24 + 6y = 0\)  

295) \(\frac{3}{2}y = x - \frac{15}{2}\)  
296) \(-y + x = 2\)  

297) \(4y = -3x\)  
298) \(7y = 8 - 4x\)  

299) \(3 - 8x = y\)  
300) \(3y - 9 + 5x = 0\)
Write down slope-intercept from given point and slope:

301) through: $(3, 5)$, slope $= \frac{5}{3}$

302) through: $(3, -5)$, slope $= -\frac{7}{3}$

303) through: $(4, -5)$, slope $= -\frac{3}{2}$

304) through: $(-2, -1)$, slope $= -2$

305) through: $(-5, 4)$, slope $= -\frac{1}{5}$

306) through: $(3, -3)$, slope $= \frac{2}{3}$

307) through: $(0, -5)$, slope $= -6$

308) through: $(-2, 4)$, slope $= 0$

309) through: $(4, 4)$, slope = undefined

310) through: $(-1, -3)$, slope $= 2$

311) through: $(-2, -1)$, slope = undefined

312) through: $(3, 0)$, slope $= -\frac{1}{3}$

313) through: $(1, -3)$, slope = undefined

314) through: $(2, 0)$, slope = undefined

315) through: $(-1, 4)$, slope $= -\frac{2}{3}$

316) through: $(-2, 4)$, slope $= -2$

317) through: $(4, 5)$, slope $= \frac{3}{2}$

318) through: $(3, -3)$, slope = undefined

319) through: $(-3, -2)$, slope $= \frac{7}{3}$

320) through: $(4, 5)$, slope $= \frac{9}{4}$

321) through: $(5, 5)$, slope $= \frac{5}{9}$

322) through: $(-3, 5)$, slope $= -\frac{2}{3}$

323) through: $(2, 3)$, slope $= \frac{3}{2}$

324) through: $(-3, -5)$, slope $= -4$

325) through: $(-1, 4)$, slope = undefined

326) through: $(-4, 2)$, slope $= -\frac{1}{4}$
327) through: $(0, 2), \quad \text{slope} = -2$

328) through: $(-1, 0), \quad \text{slope} = -\frac{1}{4}$

329) through: $(5, 1), \quad \text{slope} = -\frac{1}{5}$

330) through: $(-2, -1), \quad \text{slope} = \frac{3}{2}$

331) through: $(3, -1), \quad \text{slope} = -3$

332) through: $(4, -2), \quad \text{slope} = \frac{1}{2}$

333) through: $(-1, -5), \quad \text{slope} = 0$

334) through: $(4, -2), \quad \text{slope} = -\frac{3}{4}$

335) through: $(1, 1), \quad \text{slope} = 0$

336) through: $(4, -1), \quad \text{slope} = -1$

337) through: $(-4, 4), \quad \text{slope} = -\frac{7}{4}$

338) through: $(-2, -1), \quad \text{slope} = -\frac{2}{3}$

339) through: $(3, -2), \quad \text{slope} = -\frac{7}{3}$

340) through: $(-1, 0), \quad \text{slope} = -1$

341) through: $(-5, -2), \quad \text{slope} = \frac{1}{4}$

342) through: $(-3, 4), \quad \text{slope} = -\frac{9}{7}$

343) through: $(5, -1), \quad \text{slope} = -\frac{4}{5}$

344) through: $(-3, 4), \quad \text{slope} = -\frac{1}{3}$

345) through: $(1, 0), \quad \text{slope} = 0$

346) through: $(-1, -2), \quad \text{slope} = 5$

347) through: $(-3, -2), \quad \text{slope} = -\frac{1}{8}$

348) through: $(-2, 1), \quad \text{slope} = -\frac{5}{2}$

349) through: $(2, -2), \quad \text{slope} = \frac{1}{2}$

350) through: $(5, 4), \quad \text{slope} = \frac{1}{5}$

351) through: $(-2, 3), \quad \text{slope} = \frac{1}{2}$

352) through: $(-3, -2), \quad \text{slope} = \frac{1}{3}$
353) through: \((-3, 0)\), slope = \(-\frac{1}{3}\)

355) through: \((-1, -1)\), slope = 1

357) through: \((1, 4)\), slope = 3

359) through: \((1, 4)\), slope = 1

361) through: \((5, 0)\), slope = \(\frac{1}{6}\)

363) through: \((-4, 4)\), slope = \(-\frac{1}{2}\)

365) through: \((5, 2)\), slope = \(\frac{4}{5}\)

367) through: \((5, 5)\), slope = \(\frac{1}{5}\)

369) through: \((1, -5)\), slope = -2

371) through: \((-5, -2)\), slope = 0

373) through: \((-1, -5)\), slope = 3

375) through: \((-3, 2)\), slope = \(\frac{3}{2}\)

377) through: \((-5, 4)\), slope = \(-\frac{2}{5}\)

379) through: \((3, 4)\), slope = \(\frac{5}{3}\)

354) through: \((-1, -4)\), slope = 3

356) through: \((1, -4)\), slope = \(\frac{1}{5}\)

358) through: \((3, 1)\), slope = 4

360) through: \((4, 3)\), slope = 4

362) through: \((4, 4)\), slope = \(-\frac{1}{4}\)

364) through: \((1, 5)\), slope = 2

366) through: \((-2, -2)\), slope = \(\frac{5}{2}\)

368) through: \((-5, -4)\), slope = \(\frac{9}{5}\)

370) through: \((1, 3)\), slope = 2

372) through: \((-1, -1)\), slope = \(\frac{1}{5}\)

374) through: \((1, 1)\), slope = 5

376) through: \((0, -2)\), slope = \(-\frac{2}{3}\)

378) through: \((-5, 2)\), slope = \(-\frac{2}{5}\)

380) through: \((4, 1)\), slope = \(-\frac{3}{4}\)
381) through: \((5, 5)\), slope = \(\frac{3}{8}\)

382) through: \((4, -3)\), slope = \(-2\)

383) through: \((5, -5)\), slope = \(-\frac{4}{5}\)

384) through: \((1, 0)\), slope = \(1\)

385) through: \((-5, -1)\), slope = \(-\frac{4}{5}\)

386) through: \((3, 2)\), slope = \(0\)

387) through: \((-4, 3)\), slope = \(-\frac{1}{2}\)

388) through: \((-5, 2)\), slope = undefined

389) through: \((-4, -2)\), slope = \(\frac{3}{2}\)

390) through: \((-3, 1)\), slope = \(-\frac{5}{3}\)

391) through: \((4, -5)\), slope = \(-3\)

392) through: \((5, 3)\), slope = \(\frac{1}{5}\)

393) through: \((2, -3)\), slope = \(-\frac{7}{2}\)

394) through: \((5, -4)\), slope = \(-\frac{9}{5}\)

395) through: \((5, -2)\), slope = \(\frac{1}{5}\)

396) through: \((1, -1)\), slope = \(-2\)

397) through: \((3, 5)\), slope = \(\frac{8}{3}\)

398) through: \((2, -1)\), slope = \(1\)

399) through: \((-4, 2)\), slope = \(\frac{3}{4}\)

400) through: \((-2, 2)\), slope = \(\frac{4}{3}\)

**Write down slope-intercept from given points:**

401) through: \((3, 0)\) and \((-1, 2)\)

402) through: \((2, -3)\) and \((-2, 2)\)

403) through: \((-4, -3)\) and \((0, 1)\)

404) through: \((0, 0)\) and \((5, 2)\)

405) through: \((-3, 1)\) and \((-1, 5)\)

406) through: \((5, 2)\) and \((0, -4)\)
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<td>409)</td>
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<td>416)</td>
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<tr>
<td>418)</td>
<td>through: (4, -4) and (-2, 3)</td>
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<tr>
<td>420)</td>
<td>through: (1, -1) and (-5, 3)</td>
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<tr>
<td>422)</td>
<td>through: (-4, -4) and (0, 1)</td>
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<tr>
<td>424)</td>
<td>through: (0, 2) and (3, 1)</td>
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<tr>
<td>426)</td>
<td>through: (-3, 4) and (0, 0)</td>
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<td>428)</td>
<td>through: (0, 5) and (-1, -2)</td>
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<tr>
<td>430)</td>
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<tr>
<td>432)</td>
<td>through: (4, 2) and (4, -5)</td>
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<tr>
<td>434)</td>
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<td>436)</td>
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<tr>
<td>438)</td>
<td>through: (-4, 3) and (0, -3)</td>
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<tr>
<td>440)</td>
<td>through: (2, 3) and (-2, -3)</td>
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<tr>
<td>442)</td>
<td>through: (3, -2) and (4, -1)</td>
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</table>
443) through: (1, −3) and (−4, 2) 444) through: (−5, 4) and (−3, 0)

445) through: (1, 5) and (−3, −1) 446) through: (0, −2) and (2, −3)

447) through: (4, 5) and (−1, −1) 448) through: (−2, −4) and (0, −3)

449) through: (2, 0) and (0, 5) 450) through: (−2, 0) and (−4, 4)

451) through: (0, 3) and (3, 2) 452) through: (0, 4) and (4, −2)

453) through: (0, 1) and (−4, 3) 454) through: (4, 5) and (2, −4)

455) through: (−3, 0) and (−1, 5) 456) through: (0, −4) and (0, −2)

457) through: (1, −2) and (4, 2) 458) through: (3, 1) and (0, −3)

459) through: (5, −1) and (−3, 0) 460) through: (−1, 1) and (1, −3)

461) through: (0, 0) and (−4, 5) 462) through: (1, 0) and (−5, −2)

463) through: (0, 1) and (−1, 5) 464) through: (−3, 0) and (1, 5)

465) through: (−5, −2) and (−2, 5) 466) through: (3, 5) and (−4, 2)

467) through: (0, 1) and (1, −2) 468) through: (0, 3) and (3, −4)

469) through: (0, 0) and (5, 5) 470) through: (2, 3) and (0, −5)

471) through: (4, 0) and (3, −3) 472) through: (3, −4) and (−2, 5)

473) through: (0, 3) and (2, −5) 474) through: (1, −5) and (0, 2)

475) through: (−1, −3) and (2, −4) 476) through: (0, 3) and (1, 1)

477) through: (0, 5) and (−5, 4) 478) through: (1, −3) and (3, 5)
479) through: $(5, 5)$ and $(0, -2)$
480) through: $(-1, 0)$ and $(-4, 0)$
481) through: $(-1, -4)$ and $(0, 5)$
482) through: $(2, 2)$ and $(2, 5)$
483) through: $(4, -3)$ and $(5, -5)$
484) through: $(2, -4)$ and $(-3, 4)$
485) through: $(-2, 4)$ and $(2, -3)$
486) through: $(1, -1)$ and $(5, 4)$
487) through: $(4, -5)$ and $(0, 2)$
488) through: $(0, -2)$ and $(-1, 4)$
489) through: $(0, -1)$ and $(1, 4)$
490) through: $(1, 4)$ and $(0, 3)$
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492) through: $(5, 0)$ and $(5, -4)$
493) through: $(-1, 2)$ and $(4, -2)$
494) through: $(2, 1)$ and $(4, 2)$
495) through: $(0, 2)$ and $(1, 1)$
496) through: $(2, -3)$ and $(-3, 2)$
497) through: $(2, -3)$ and $(-3, -4)$
498) through: $(5, -2)$ and $(3, -3)$
499) through: $(-4, -3)$ and $(0, -4)$
500) through: $(-4, 2)$ and $(-1, -5)$

Write down slope-intercept from given point and parallel linear functions:

501) through: $(3, -4)$, parallel to $y = 3$
502) through: $(5, -5)$, parallel to $y = -6x - 2$
503) through: $(-2, -2)$, parallel to $y = -\frac{1}{2}x - 2$
504) through: $(5, 5)$, parallel to $y = x + 4$
505) through: $(1, 3)$, parallel to $y = -2x - 2$
506) through: $(4, 0)$, parallel to $y = -\frac{1}{2}x - 4$
507) through: $(-4, 1)$, parallel to $y = \frac{1}{3}x - 5$
508) through: $(-4, 4)$, parallel to $y = -\frac{3}{4}x + 5$
509) through: $(3, 2)$, parallel to $y = \frac{7}{3}x + 5$
510) through: $(-5, -2)$, parallel to $y = \frac{1}{5}x + 5$
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<thead>
<tr>
<th>Equation</th>
<th>Points</th>
<th>Slope</th>
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<td>511) ( \text{through: } (−3, 0), \text{ parallel to } y = 3 )</td>
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<tr>
<td>512) ( \text{through: } (−4, −1), \text{ parallel to } x = 0 )</td>
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<tr>
<td>513) ( \text{through: } (4, 2), \text{ parallel to } x = 0 )</td>
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<tr>
<td>514) ( \text{through: } (5, 5), \text{ parallel to } y = \frac{6}{5}x + 4 )</td>
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<tr>
<td>515) ( \text{through: } (4, −4), \text{ parallel to } y = −x + 1 )</td>
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<tr>
<td>516) ( \text{through: } (3, −2), \text{ parallel to } x = 0 )</td>
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<tr>
<td>517) ( \text{through: } (−3, −4), \text{ parallel to } y = −\frac{1}{3}x + 1 )</td>
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<tr>
<td>518) ( \text{through: } (3, −5), \text{ parallel to } y = −\frac{5}{3}x + 4 )</td>
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<tr>
<td>519) ( \text{through: } (−2, 4), \text{ parallel to } y = −\frac{1}{2}x + 1 )</td>
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<tr>
<td>520) ( \text{through: } (−3, 1), \text{ parallel to } y = \frac{1}{3}x − 2 )</td>
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<tr>
<td>521) ( \text{through: } (0, 4), \text{ parallel to } y = \frac{1}{3}x − 3 )</td>
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<tr>
<td>522) ( \text{through: } (1, 1), \text{ parallel to } y = −x − 5 )</td>
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<tr>
<td>523) ( \text{through: } (−4, 0), \text{ parallel to } y = −\frac{3}{7}x − 4 )</td>
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<tr>
<td>524) ( \text{through: } (5, 4), \text{ parallel to } y = \frac{8}{5}x + 3 )</td>
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<td>525) ( \text{through: } (5, −3), \text{ parallel to } y = −\frac{2}{9}x − 1 )</td>
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<tr>
<td>526) ( \text{through: } (1, −2), \text{ parallel to } y = −7x − 1 )</td>
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<td>527) ( \text{through: } (2, −3), \text{ parallel to } y = −2x + 2 )</td>
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<td>528) ( \text{through: } (−5, 5), \text{ parallel to } y = −\frac{9}{5}x + 3 )</td>
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<tr>
<td>529) ( \text{through: } (−4, −1), \text{ parallel to } y = x − 2 )</td>
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<tr>
<td>530) ( \text{through: } (−1, 1), \text{ parallel to } y = −5x + 1 )</td>
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<tr>
<td>531) ( \text{through: } (1, 5), \text{ parallel to } y = −5x )</td>
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<td>532) ( \text{through: } (1, −1), \text{ parallel to } x = 0 )</td>
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<tr>
<td>533) ( \text{through: } (−4, 3), \text{ parallel to } y = −2x + 5 )</td>
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<td>534) ( \text{through: } (−2, 2), \text{ parallel to } y = x + 5 )</td>
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<tr>
<td>535) ( \text{through: } (−2, −2), \text{ parallel to } x = 0 )</td>
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<tr>
<td>536) ( \text{through: } (−4, 0), \text{ parallel to } y = \frac{1}{2}x − 4 )</td>
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<tr>
<td>537) ( \text{through: } (3, −2), \text{ parallel to } y = −\frac{2}{3}x + 5 )</td>
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<tr>
<td>538) ( \text{through: } (3, 0), \text{ parallel to } y = −x − 2 )</td>
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</table>
539) through: \((-1, 4), \text{ parallel to } y = \frac{4}{3}x - 1\)
540) through: \((-1, 1), \text{ parallel to } y = -\frac{4}{5}x\)

541) through: \((4, 1), \text{ parallel to } y = -3\)
542) through: \((5, 1), \text{ parallel to } y = -\frac{4}{5}x - 4\)

543) through: \((-3, -2), \text{ parallel to } y = \frac{2}{3}x + 5\)
544) through: \((4, -4), \text{ parallel to } y = -\frac{3}{2}x - 3\)

545) through: \((1, 5), \text{ parallel to } y = 8x - 5\)
546) through: \((2, 1), \text{ parallel to } x = 0\)

547) through: \((3, 5), \text{ parallel to } y = 2x\)
548) through: \((-2, -2), \text{ parallel to } y = -\frac{3}{2}x - 1\)

549) through: \((2, -3), \text{ parallel to } y = -x + 2\)
550) through: \((-1, -3), \text{ parallel to } y = \frac{2}{3}x + 4\)

551) through: \((-1, -1), \text{ parallel to } y = -x - 5\)
552) through: \((-3, -3), \text{ parallel to } y = \frac{2}{3}x + 3\)

553) through: \((-5, -5), \text{ parallel to } y = \frac{6}{5}x - 3\)
554) through: \((-1, -1), \text{ parallel to } y = 6x - 1\)

555) through: \((-4, -4), \text{ parallel to } y = \frac{1}{4}x + 5\)
556) through: \((2, 3), \text{ parallel to } y = \frac{3}{2}x - 5\)

557) through: \((4, 0), \text{ parallel to } y = -x + 2\)
558) through: \((-5, -5), \text{ parallel to } y = \frac{8}{5}x - 4\)

559) through: \((2, 0), \text{ parallel to } y = -\frac{3}{2}x - 2\)
560) through: \((-4, -3), \text{ parallel to } y = \frac{3}{2}x - 3\)

561) through: \((3, 0), \text{ parallel to } y = -\frac{2}{3}x\)
562) through: \((3, 4), \text{ parallel to } y = \frac{1}{3}x - 5\)

563) through: \((-5, 5), \text{ parallel to } y = -\frac{2}{5}x - 1\)
564) through: \((-5, 2), \text{ parallel to } y = -\frac{7}{5}x + 2\)
565) through: \((1, -2)\), parallel to \(y = \frac{3}{2}x + 5\)

566) through: \((-5, 3)\), parallel to \(y = -\frac{3}{2}x + 5\)

567) through: \((2, 4)\), parallel to \(y = 4x\)

568) through: \((-2, -3)\), parallel to \(y = \frac{1}{5}x + 1\)

569) through: \((1, 5)\), parallel to \(y = 9x\)

570) through: \((2, 2)\), parallel to \(y = \frac{3}{2}x + 4\)

571) through: \((1, -3)\), parallel to \(y = -7x - 3\)

572) through: \((-3, 4)\), parallel to \(y = -7x + 1\)

573) through: \((-1, -2)\), parallel to \(y = -2x + 1\)

574) through: \((4, 1)\), parallel to \(y = -2x - 5\)

575) through: \((-3, -2)\), parallel to \(y = -\frac{1}{3}x - 5\)

576) through: \((1, -2)\), parallel to \(y = -2x + 2\)

577) through: \((5, 0)\), parallel to \(y = \frac{2}{5}x - 4\)

578) through: \((-5, -3)\), parallel to \(x = 0\)

579) through: \((5, -2)\), parallel to \(y = \frac{1}{3}x + 2\)

580) through: \((-1, -5)\), parallel to \(y = 9x + 5\)

581) through: \((1, -3)\), parallel to \(y = x + 2\)

582) through: \((5, 1)\), parallel to \(y = \frac{1}{5}x + 4\)

583) through: \((5, -4)\), parallel to \(y = -\frac{3}{5}x + 4\)

584) through: \((3, 1)\), parallel to \(y = x + 3\)

585) through: \((-2, -5)\), parallel to \(y = 4x + 1\)

586) through: \((1, -2)\), parallel to \(y = -6x + 2\)

587) through: \((0, -2)\), parallel to \(y = -\frac{5}{2}x + 4\)

588) through: \((-1, -2)\), parallel to \(y = x - 5\)

589) through: \((1, 1)\), parallel to \(y = -2x - 5\)

590) through: \((4, -1)\), parallel to \(y = -\frac{5}{4}x - 4\)

591) through: \((-3, -1)\), parallel to \(y = 2x + 2\)
592) through: \((-5, 0)\), parallel to \(y = \frac{3}{5}x + 5\)

594) through: \((-2, 4)\), parallel to \(y = -\frac{3}{2}x\)

596) through: \((5, -3)\), parallel to \(y = -\frac{2}{5}x - 3\)

598) through: \((2, 3)\), parallel to \(y = 3x + 2\)

600) through: \((3, 2)\), parallel to \(y = -5\)

Write down slope-intercept from given point and perpendicular function:

601) through: \((3, -3)\), perp. to \(y = \frac{3}{4}x - 2\)

603) through: \((1, 2)\), perp. to \(y = -\frac{1}{6}x + 4\)

605) through: \((2, -1)\), perp. to \(y = \frac{1}{3}x\)

607) through: \((-4, -1)\), perp. to \(y = -\frac{6}{5}x - 4\)

609) through: \((-1, 3)\), perp. to \(y = -x + 2\)

611) through: \((4, -1)\), perp. to \(y = -2x - 3\)

613) through: \((2, -5)\), perp. to \(y = \frac{2}{7}x - 3\)

615) through: \((-2, 2)\), perp. to \(y = 2x - 1\)

602) through: \((-1, -5)\), perp. to \(y = -x - 2\)

604) through: \((5, -3)\), perp. to \(y = x - 1\)

606) through: \((-3, -1)\), perp. to \(y = -5\)

608) through: \((-3, 0)\), perp. to \(y = -x + 1\)

610) through: \((3, 4)\), perp. to \(y = -\frac{3}{7}x - 4\)

612) through: \((5, 4)\), perp. to \(y = -\frac{8}{3}x - 4\)

614) through: \((-4, -5)\), perp. to \(y = -4x - 2\)

616) through: \((1, -5)\), perp. to \(y = \frac{1}{7}x + 5\)
617) through: $(5, -2)$, perp. to $y = \frac{5}{3}x + 1$

619) through: $(2, 2)$, perp. to $y = x + 4$

621) through: $(5, -4)$, perp. to $y = \frac{5}{4}x + 5$

623) through: $(5, -1)$, perp. to $y = \frac{5}{2}x + 5$

625) through: $(2, 4)$, perp. to $y = -\frac{2}{7}x + 5$

627) through: $(5, 4)$, perp. to $y = -4x - 3$

629) through: $(5, -5)$, perp. to $y = \frac{5}{3}x + 2$

631) through: $(5, 5)$, perp. to $y = -\frac{5}{4}x - 4$

633) through: $(-5, 2)$, perp. to $y = \frac{1}{7}x + 1$

635) through: $(-2, 2)$, perp. to $y = -\frac{3}{2}x - 5$

637) through: $(1, -1)$, perp. to $y = x - 4$

639) through: $(1, -3)$, perp. to $y = \frac{1}{5}x$

618) through: $(-1, 5)$, perp. to $y = \frac{1}{6}x - 5$

620) through: $(-4, 3)$, perp. to $y = \frac{4}{5}x + 2$

622) through: $(-5, -5)$, perp. to $y = -\frac{5}{3}x$

624) through: $(1, 5)$, perp. to $y = \frac{1}{4}x - 3$

626) through: $(-1, 4)$, perp. to $y = \frac{5}{2}x - 5$

628) through: $(-1, 0)$, perp. to $y = -\frac{1}{4}x + 2$

630) through: $(4, -4)$, perp. to $y = \frac{2}{3}x - 5$

632) through: $(5, -3)$, perp. to $y = \frac{5}{6}x + 1$

634) through: $(4, -5)$, perp. to $y = 2x - 1$

636) through: $(5, -2)$, perp. to $y = \frac{5}{7}x$

638) through: $(-2, -1)$, perp. to $y = -\frac{1}{3}x + 2$

640) through: $(1, 4)$, perp. to $x = 0$
641) through: (2, -4), perp. to $y = \frac{1}{3}x$
642) through: (1, 1), perp. to $y = -\frac{1}{3}x - 4$
643) through: (-4, 5), perp. to $y = -2$
644) through: (1, -3), perp. to $y = \frac{1}{4}x + 1$
645) through: (-2, -1), perp. to $y = x$
646) through: (2, -3), perp. to $y = \frac{2}{5}x + 4$
647) through: (-5, -2), perp. to $x = 0$
648) through: (2, 3), perp. to $y = -\frac{3}{5}x + 4$
649) through: (-4, -4), perp. to $y = -x + 4$
650) through: (-3, 1), perp. to $y = -\frac{3}{2}x + 5$
651) through: (5, 4), perp. to $y = -\frac{8}{7}x + 5$
652) through: (-4, 4), perp. to $y = \frac{4}{3}x - 4$
653) through: (5, -5), perp. to $y = 0$
654) through: (1, -2), perp. to $y = -\frac{1}{3}x + 5$
655) through: (-2, -2), perp. to $y = -\frac{1}{3}x + 4$
656) through: (2, 2), perp. to $y = -\frac{1}{2}x + 4$
657) through: (3, -3), perp. to $y = \frac{3}{5}x - 2$
658) through: (-3, 1), perp. to $y = -\frac{3}{4}x$
659) through: (3, 5), perp. to $y = -x + 5$
660) through: (-1, 4), perp. to $y = \frac{1}{8}x$
661) through: (4, -4), perp. to $y = \frac{4}{5}x + 5$
662) through: (-1, 5), perp. to $y = \frac{3}{7}x + 3$
663) through: (-5, -5), perp. to $x = 0$
664) through: (4, 3), perp. to $y = -\frac{4}{5}x + 2$
665) through: $(-2, 2)$, perp. to $y = \frac{2}{3}x - 2$
666) through: $(-1, -4)$, perp. to $y = -\frac{1}{7}x$

667) through: $(−1, 1)$, perp. to $x = 0$
668) through: $(5, 0)$, perp. to $y = -5x - 1$

669) through: $(−4, 0)$, perp. to $y = 8x - 5$
670) through: $(2, -3)$, perp. to $y = -2x - 1$

671) through: $(−1, 4)$, perp. to $y = \frac{1}{3}x - 1$
672) through: $(1, 2)$, perp. to $y = -\frac{1}{5}x - 4$

673) through: $(−5, 3)$, perp. to $y = -\frac{5}{2}x + 1$
674) through: $(4, 5)$, perp. to $y = -\frac{2}{3}x - 2$

675) through: $(4, 3)$, perp. to $x = 0$
676) through: $(−2, 1)$, perp. to $y = -2$

677) through: $(−5, -2)$, perp. to $y = -\frac{5}{7}x + 1$
678) through: $(−4, -4)$, perp. to $y = -3x - 1$

679) through: $(−2, 3)$, perp. to $y = -x + 5$
680) through: $(−5, 2)$, perp. to $y = 5x + 5$

681) through: $(4, -2)$, perp. to $y = \frac{4}{5}x + 4$
682) through: $(3, -3)$, perp. to $y = 0$

683) through: $(2, 4)$, perp. to $y = -\frac{2}{9}x$
684) through: $(4, 1)$, perp. to $y = 9x$

685) through: $(−4, −2)$, perp. to $y = 2x$
686) through: $(−2, 3)$, perp. to $y = x + 2$

687) through: $(2, -5)$, perp. to $y = \frac{2}{5}x - 3$
688) through: $(1, 4)$, perp. to $y = -\frac{1}{5}x - 4$

689) through: $(−2, 5)$, perp. to $y = 2x - 4$
690) through: $(−1, 3)$, perp. to $y = \frac{1}{3}x - 3$

691) through: $(1, −5)$, perp. to $y = \frac{1}{8}x + 5$
692) through: $(−4, 1)$, perp. to $y = \frac{5}{4}x - 2$
693) through: \((-5, -4)\), perp. to \(y = -\frac{5}{2}x - 2\)

694) through: \((1, -2)\), perp. to \(y = \frac{1}{6}x + 1\)

695) through: \((4, 2)\), perp. to \(y = -3\)

696) through: \((-5, 3)\), perp. to \(y = -3\)

697) through: \((-4, 3)\), perp. to \(y = 4x\)

698) through: \((3, 4)\), perp. to \(y = -\frac{3}{8}x + 5\)

699) through: \((-1, -3)\), perp. to \(y = -\frac{1}{4}x + 2\)

700) through: \((-5, 3)\), perp. to \(y = x - 5\)
Linear and affine functions - slope-intercept form

Write down slope-intercept from standard form:

1) $5x + 3y = -14$
   \[ y = -\frac{5}{3}x - \frac{14}{3} \]

2) $13x - 8y = -12$
   \[ y = \frac{13}{8}x + \frac{3}{2} \]

3) $3x + 2y = -14$
   \[ y = -\frac{3}{2}x - 7 \]

4) $6x - y = 0$
   \[ y = 6x \]

5) $2x + y = 3$
   \[ y = -2x + 3 \]

6) $2x + y = 6$
   \[ y = -2x + 6 \]

7) $5x - 2y = -16$
   \[ y = \frac{5}{2}x + 8 \]

8) $x - 2y = -2$
   \[ y = \frac{1}{2}x + 1 \]

9) $7x + 6y = -24$
   \[ y = -\frac{7}{6}x - 4 \]

10) $13x - 14y = -8$
    \[ y = \frac{13}{14}x + \frac{4}{7} \]

11) $3x - y = -17$
    \[ y = 3x + 17 \]

12) $11x + y = -3$
    \[ y = -11x - 3 \]

13) $x - y = 1$
    \[ y = x - 1 \]

14) $x + y = -1$
    \[ y = -x - 1 \]

15) $3x - 4y = 32$
    \[ y = \frac{3}{4}x - 8 \]

16) $13x - 2y = -12$
    \[ y = \frac{13}{2}x + 6 \]

17) $12x - 5y = 30$
    \[ y = \frac{12}{5}x - 6 \]

18) $x = 8$
    \[ x = 8 \]

19) $3x - 7y = 0$
    \[ y = \frac{3}{7}x \]

20) $9x + 5y = 35$
    \[ y = -\frac{9}{5}x + 7 \]
21) \(3x - y = -8\)
   \[y = 3x + 8\]

22) \(3x - 2y = 10\)
   \[y = \frac{3}{2}x - 5\]

23) \(10x + y = 2\)
   \[y = -10x + 2\]

24) \(x - y = -1\)
   \[y = x + 1\]

25) \(x + 7y = 7\)
   \[y = -\frac{1}{7}x + 1\]

26) \(2x + 13y = -23\)
   \[y = -\frac{2}{13}x - \frac{23}{13}\]

27) \(x - 2y = -12\)
   \[y = \frac{1}{2}x + 6\]

28) \(4x - 3y = -18\)
   \[y = \frac{4}{3}x + 6\]

29) \(13x + 6y = 48\)
   \[y = -\frac{13}{6}x + 8\]

30) \(x + 3y = 18\)
   \[y = -\frac{1}{3}x + 6\]

31) \(x = 1\)
   \[x = 1\]

32) \(11x + 7y = -5\)
   \[y = -\frac{11}{7}x - \frac{5}{7}\]

33) \(x = -3\)
   \[x = -3\]

34) \(x + 2y = 2\)
   \[y = \frac{1}{2}x + 1\]

35) \(5x - 3y = -18\)
   \[y = \frac{5}{3}x + 6\]

36) \(3x + 5y = -20\)
   \[y = -\frac{3}{5}x - 4\]

37) \(5x + 3y = -9\)
   \[y = -\frac{5}{3}x - 3\]

38) \(2x - 5y = 30\)
   \[y = \frac{2}{5}x - 6\]

39) \(5x - 3y = 2\)
   \[y = \frac{5}{3}x - \frac{2}{3}\]

40) \(8x + 3y = 0\)
   \[y = -\frac{8}{3}x\]

41) \(x + y = 4\)
   \[y = -x + 4\]

42) \(9x - 7y = -42\)
   \[y = \frac{9}{7}x + 6\]
43) \(x + 3y = -8\)
\[
y = -\frac{1}{3}x - \frac{8}{3}
\]

44) \(x = 5\)
\[
x = 5
\]

45) \(14x - 5y = -30\)
\[
y = \frac{14}{5}x + 6
\]

46) \(3x + 8y = 64\)
\[
y = -\frac{3}{8}x + 8
\]

47) \(5x + 3y = -18\)
\[
y = -\frac{5}{3}x - 6
\]

48) \(13x - 8y = 48\)
\[
y = \frac{13}{8}x - 6
\]

49) \(3x - 5y = 25\)
\[
y = \frac{3}{5}x - 5
\]

50) \(8x + y = 6\)
\[
y = -8x + 6
\]

51) \(5x + 4y = -8\)
\[
y = -\frac{5}{4}x - 2
\]

52) \(9x + 2y = -6\)
\[
y = -\frac{9}{2}x - 3
\]

53) \(x + y = 8\)
\[
y = -x + 8
\]

54) \(2x - y = 4\)
\[
y = 2x - 4
\]

55) \(7x - 4y = 20\)
\[
y = \frac{7}{4}x - 5
\]

56) \(2x - 3y = -13\)
\[
y = \frac{2}{3}x + \frac{13}{3}
\]

57) \(2x - y = 3\)
\[
y = 2x - 3
\]

58) \(x - y = -7\)
\[
y = x + 7
\]

59) \(x + 2y = -12\)
\[
y = -\frac{1}{2}x - 6
\]

60) \(15x + 7y = 49\)
\[
y = -\frac{15}{7}x + 7
\]

61) \(x = 7\)
\[
x = 7
\]

62) \(3x - 7y = -21\)
\[
y = \frac{3}{7}x + 3
\]

63) \(x - 3y = 18\)
\[
y = \frac{1}{3}x - 6
\]

64) \(x - 2y = -4\)
\[
y = \frac{1}{2}x + 2
\]
65) \( x + 2y = 4 \) 
\[ y = -\frac{1}{2}x + 2 \]

66) \( 2x - y = -16 \) 
\[ y = 2x + 16 \]

67) \( x - 9y = 12 \) 
\[ y = \frac{1}{9}x - \frac{4}{3} \]

68) \( y = -4 \) 
\[ y = -4 \]

69) \( 2x - y = -6 \) 
\[ y = 2x + 6 \]

70) \( 9x - 2y = -16 \) 
\[ y = \frac{9}{2}x + 8 \]

71) \( 5x + y = 2 \) 
\[ y = -5x + 2 \]

72) \( 7x - y = -1 \) 
\[ y = 7x + 1 \]

73) \( 4x + 5y = 15 \) 
\[ y = -\frac{4}{5}x + 3 \]

74) \( y = 1 \) 
\[ y = 1 \]

75) \( x + y = -3 \) 
\[ y = -x - 3 \]

76) \( x - 2y = 0 \) 
\[ y = \frac{1}{2}x \]

77) \( 3x - 8y = 50 \) 
\[ y = \frac{3}{8}x - \frac{25}{4} \]

78) \( x + 10y = -74 \) 
\[ y = -\frac{1}{10}x - \frac{37}{5} \]

79) \( x - 4y = -28 \) 
\[ y = \frac{1}{4}x + 7 \]

80) \( 2x + y = 1 \) 
\[ y = -2x + 1 \]

81) \( x - 4y = -4 \) 
\[ y = \frac{1}{4}x + 1 \]

82) \( 6x + y = 0 \) 
\[ y = -6x \]

83) \( x + y = 1 \) 
\[ y = -x + 1 \]

84) \( 8x - y = 36 \) 
\[ y = 8x - 36 \]

85) \( 11x + 9y = -28 \) 
\[ y = -\frac{11}{9}x - \frac{28}{9} \]

86) \( 13x + y = -8 \) 
\[ y = -13x - 8 \]
87) $2x - 5y = -5$
\[ y = \frac{2}{5}x + 1 \]

88) $2x + y = 0$
\[ y = -2x \]

89) $5x + 2y = -12$
\[ y = \frac{-5}{2}x - 6 \]

90) $3x - y = 8$
\[ y = 3x - 8 \]

91) $x + 7y = 28$
\[ y = \frac{-1}{7}x + 4 \]

92) $15x + y = 7$
\[ y = -15x + 7 \]

93) $5x + 6y = -48$
\[ y = \frac{-5}{6}x - 8 \]

94) $7x + 6y = -48$
\[ y = \frac{-7}{6}x - 8 \]

95) $2x + 3y = -6$
\[ y = \frac{-2}{3}x - 2 \]

96) $6x - 5y = -41$
\[ y = \frac{6}{5}x + \frac{41}{5} \]

97) $x + 4y = -12$
\[ y = \frac{-1}{4}x - 3 \]

98) $9x + 5y = 5$
\[ y = \frac{-9}{5}x + 1 \]

99) $11x - 7y = -49$
\[ y = \frac{11}{7}x + 7 \]

100) $3x - 2y = -12$
\[ y = \frac{-3}{2}x + 6 \]

**Write down slope-intercept from point-slope form:**

101) $y + 4 = \frac{3}{5}(x + 5)$
\[ y = \frac{3}{5}x - 1 \]

102) $y = 0$
\[ y = 0 \]

103) $y - 3 = 5(x - 1)$
\[ y = 5x - 2 \]

104) $y - 2 = \frac{2}{5}(x - 4)$
\[ y = \frac{2}{5}x + \frac{2}{5} \]

105) $y + 5 = -\frac{5}{2}(x - 2)$
\[ y = -\frac{5}{2}x \]

106) $y + 4 = \frac{5}{4}(x + 4)$
\[ y = \frac{5}{4}x + 1 \]
107) \( y - 3 = -2(x - 1) \)
\[ y = -2x + 5 \]

108) \( y - 3 = \frac{1}{2}(x + 4) \)
\[ y = \frac{1}{2}x + 5 \]

109) \( y - 5 = -9(x + 1) \)
\[ y = -9x - 4 \]

110) \( y + 3 = -\frac{3}{4}(x - 4) \)
\[ y = -\frac{3}{4}x \]

111) \( y + 3 = 3(x - 1) \)
\[ y = 3x - 6 \]

112) \( y - 5 = -4(x + 1) \)
\[ y = -4x + 1 \]

113) \( y - 2 = 7(x - 1) \)
\[ y = 7x - 5 \]

114) \( y - 5 = -3(x + 2) \)
\[ y = -3x - 1 \]

115) \( y + 5 = -\frac{1}{2}(x - 5) \)
\[ y = -\frac{1}{2}x + \frac{5}{2} \]

116) \( y - 5 = -\frac{1}{5}(x + 5) \)
\[ y = -\frac{1}{5}x + 4 \]

117) \( y = -\frac{5}{4}(x + 3) \)
\[ y = -\frac{5}{4}x - \frac{15}{4} \]

118) \( y + 5 = -\frac{9}{4}(x - 4) \)
\[ y = -\frac{9}{4}x + 4 \]

119) \( y + 2 = -(x + 2) \)
\[ y = -x - 4 \]

120) \( y - 5 = \frac{8}{5}(x - 5) \)
\[ y = \frac{8}{5}x - 3 \]

121) \( y + 4 = -\frac{1}{6}(x - 2) \)
\[ y = -\frac{1}{6}x - \frac{11}{3} \]

122) \( y + 3 = x + 2 \)
\[ y = x - 1 \]

123) \( y = -\frac{1}{2}(x - 4) \)
\[ y = -\frac{1}{2}x + 2 \]

124) \( y + 3 = -\frac{1}{2}(x + 2) \)
\[ y = -\frac{1}{2}x - 4 \]
125) \( y - 3 = x - 5 \)
\[ y = x - 2 \]

126) \( y = -5(x + 1) \)
\[ y = -5x - 5 \]

127) \( y - 1 = -\frac{3}{2}(x + 4) \)
\[ y = -\frac{3}{2}x - 5 \]

128) \( y + 2 = -\frac{2}{5}(x - 5) \)
\[ y = -\frac{2}{5}x \]

129) \( y - 4 = \frac{9}{4}(x - 4) \)
\[ y = \frac{9}{4}x - 5 \]

130) \( y = -3(x - 1) \)
\[ y = -3x + 3 \]

131) \( y - 5 = -\frac{10}{3}(x + 3) \)
\[ y = -\frac{10}{3}x - 5 \]

132) \( y - 5 = \frac{5}{4}(x - 4) \)
\[ y = \frac{5}{4}x \]

133) \( y + 4 = -\frac{1}{6}(x - 1) \)
\[ y = -\frac{1}{6}x - \frac{23}{6} \]

134) \( y - 3 = -\frac{8}{9}(x + 4) \)
\[ y = -\frac{8}{9}x - \frac{5}{9} \]

135) \( y - 5 = x - 3 \)
\[ y = x + 2 \]

136) \( y + 5 = -\frac{3}{4}(x - 4) \)
\[ y = -\frac{3}{4}x - 2 \]

137) \( y - 4 = -2(x + 3) \)
\[ y = -2x - 2 \]

138) \( y - 3 = -(x - 2) \)
\[ y = -x + 5 \]

139) \( y + 1 = -\frac{1}{4}(x - 4) \)
\[ y = -\frac{1}{4}x \]

140) \( y - 4 = -\frac{1}{6}(x + 4) \)
\[ y = -\frac{1}{6}x + \frac{10}{3} \]

141) \( y + 1 = -\frac{3}{4}(x + 4) \)
\[ y = -\frac{3}{4}x - 4 \]

142) \( y + 2 = x + 3 \)
\[ y = x + 1 \]
143) \( y - 1 = -\frac{2}{7}(x - 5) \)
\[ y = \frac{2}{7}x + \frac{17}{7} \]

144) \( y + 2 = -2(x - 3) \)
\[ y = -2x + 4 \]

145) \( y + 5 = -\frac{2}{5}(x - 5) \)
\[ y = -\frac{2}{5}x - 3 \]

146) \( y + 4 = 2(x + 1) \)
\[ y = 2x - 2 \]

147) \( y + 3 = -(x + 5) \)
\[ y = -x - 8 \]

148) \( y - 5 = \frac{3}{7}(x - 4) \)
\[ y = \frac{3}{7}x + \frac{23}{7} \]

149) \( y + 3 = -\frac{5}{4}(x - 4) \)
\[ y = -\frac{5}{4}x + 2 \]

150) \( y + 3 = 2(x + 2) \)
\[ y = 2x + 1 \]

151) \( y + 4 = \frac{8}{9}(x + 5) \)
\[ y = \frac{8}{9}x + \frac{4}{9} \]

152) \( y - 4 = -\frac{4}{3}(x + 3) \)
\[ y = -\frac{4}{3}x \]

153) \( y - 1 = -2(x - 1) \)
\[ y = -2x + 3 \]

154) \( y - 5 = 0 \)
\[ y = 5 \]

155) \( y = -\frac{4}{5}(x - 5) \)
\[ y = -\frac{4}{5}x + 4 \]

156) \( y = -\frac{3}{4}(x + 3) \)
\[ y = -\frac{3}{4}x - \frac{9}{4} \]

157) \( y - 3 = \frac{3}{4}(x - 4) \)
\[ y = \frac{3}{4}x \]

158) \( y + 1 = -3(x - 1) \)
\[ y = -3x + 2 \]

159) \( y - 2 = 2x \)
\[ y = 2x + 2 \]

160) \( y = -\frac{5}{4}(x + 4) \)
\[ y = -\frac{5}{4}x - 5 \]
161) \( y - 2 = -\frac{3}{2}(x + 4) \)
\[ y = -\frac{3}{2}x - 4 \]

162) \( y + 4 = -\frac{4}{5}(x - 5) \)
\[ y = -\frac{4}{5}x \]

163) \( y - 5 = \frac{4}{5}(x - 5) \)
\[ y = \frac{4}{5}x + 1 \]

164) \( y - 5 = -2(x + 3) \)
\[ y = -2x - 1 \]

165) \( y + 4 = \frac{7}{8}(x + 4) \)
\[ y = \frac{7}{8}x - \frac{1}{2} \]

166) \( y + 3 = \frac{5}{4}(x + 3) \)
\[ y = \frac{5}{4}x + \frac{3}{4} \]

167) \( y + 3 = 0 \)
\[ y = -3 \]

168) \( y + 3 = -3(x - 1) \)
\[ y = -3x \]

169) \( y = -(x - 4) \)
\[ y = -x + 4 \]

170) \( y + 5 = 2(x + 1) \)
\[ y = 2x - 3 \]

171) \( y - 5 = 2(x - 1) \)
\[ y = 2x + 3 \]

172) \( y - 2 = \frac{1}{2}(x + 4) \)
\[ y = \frac{1}{2}x + 4 \]

173) \( 0 = x + 1 \)
\[ x = -1 \]

174) \( y + 3 = \frac{3}{2}(x + 4) \)
\[ y = \frac{3}{2}x + 3 \]

175) \( y - 4 = -(x - 2) \)
\[ y = -x + 6 \]

176) \( y + 3 = \frac{1}{4}(x + 4) \)
\[ y = \frac{1}{4}x - 2 \]

177) \( y = -\frac{3}{2}(x + 1) \)
\[ y = -\frac{3}{2}x - \frac{3}{2} \]

178) \( y - 5 = -(x + 5) \)
\[ y = -x \]

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179) \( y - 4 = \frac{2}{7}(x - 3) \)
\[ \frac{2}{7}x + \frac{22}{7} \]

180) \( y + 1 = -\frac{5}{4}(x - 4) \)
\[ y = -\frac{5}{4}x + 4 \]

181) \( y - 5 = -10(x + 1) \)
\[ y = -10x - 5 \]

182) \( 0 = x - 5 \)
\[ x = 5 \]

183) \( y + 4 = \frac{4}{3}(x + 3) \)
\[ y = \frac{4}{3}x \]

184) \( y - 3 = -\frac{1}{3}(x + 3) \)
\[ y = -\frac{1}{3}x + 2 \]

185) \( y - 3 = -\frac{6}{5}(x + 5) \)
\[ y = -\frac{6}{5}x - 3 \]

186) \( y + 5 = -(x - 4) \)
\[ y = -x - 1 \]

187) \( y - 2 = \frac{2}{5}(x - 5) \)
\[ y = \frac{2}{5}x \]

188) \( y - 2 = \frac{4}{7}(x - 4) \)
\[ y = \frac{4}{7}x - \frac{2}{7} \]

189) \( y + 3 = -7(x - 1) \)
\[ y = -7x + 4 \]

190) \( y - 1 = 2(x - 3) \)
\[ y = 2x - 5 \]

191) \( y - 1 = \frac{1}{2}(x - 3) \)
\[ y = \frac{1}{2}x - \frac{1}{2} \]

192) \( 0 = x - 2 \)
\[ x = 2 \]

193) \( y - 2 = -7(x - 1) \)
\[ y = -7x + 9 \]

194) \( y + 5 = -2(x - 3) \)
\[ y = -2x + 1 \]

195) \( y + 2 = -\frac{3}{4}(x + 4) \)
\[ y = -\frac{3}{4}x - 5 \]

196) \( y = \frac{5}{3}x \)
\[ y = \frac{5}{3}x \]
197) \( y = \frac{1}{2}(x - 2) \)
\[ y = \frac{1}{2}x - 1 \]

199) \( y - 1 = -\frac{1}{2}(x - 4) \)
\[ y = -\frac{1}{2}x + 3 \]

Write down slope-intercept from given form:

201) \( 3x - 5y - 25 = 0 \)
\[ y = \frac{3}{5}x - 5 \]

203) \( 0 = -3y - 2x + 9 \)
\[ y = -\frac{2}{3}x + 3 \]

205) \( 0 = x + \frac{2}{5}y + \frac{2}{5} \)
\[ y = -\frac{5}{2}x - 1 \]

207) \( 12 + 5x + 4y = 0 \)
\[ y = -\frac{5}{4}x - 3 \]

209) \( -8 = -2y + \frac{2}{3}x \)
\[ y = \frac{1}{3}x + 4 \]

211) \( -x = y + 5 \)
\[ y = -x - 5 \]

213) \( 0 = 1 - \frac{1}{5}y - \frac{1}{5}x \)
\[ y = -x + 5 \]

198) \( y - 5 = -(x + 3) \)
\[ y = -x + 2 \]

200) \( y + 5 = -\frac{4}{3}(x + 1) \)
\[ y = -\frac{4}{3}x - \frac{19}{3} \]

202) \( -4x = -5 + y \)
\[ y = -4x + 5 \]

204) \( 5x + 8 = 2y \)
\[ y = \frac{5}{2}x + 4 \]

206) \( -2x - 1 = y \)
\[ y = -2x - 1 \]

208) \( 0 = -1 + x \)
\[ x = 1 \]

210) \( -4 - 4y = x \)
\[ y = -\frac{1}{4}x - 1 \]

212) \( -6x - 21 - 3y = 0 \)
\[ y = -2x - 7 \]

214) \( -\frac{5}{4}x = 5 - y \)
\[ y = \frac{5}{4}x + 5 \]
215) $2y = x$
   \[ y = \frac{1}{2}x \]

217) $6 = 4x - 2y$
   \[ y = 2x - 3 \]

219) $2 - y + \frac{1}{2}x = 0$
   \[ y = \frac{1}{2}x + 2 \]

221) $-12 = -4y + x$
   \[ y = \frac{1}{4}x + 3 \]

223) $-5y = 16 - 9x$
   \[ y = \frac{9}{5}x - \frac{16}{5} \]

225) $1 - \frac{1}{4}x + \frac{7}{20}y = 0$
   \[ y = \frac{5}{7}x - \frac{20}{7} \]

227) $3 + 2x = -y$
   \[ y = -2x - 3 \]

229) $-5x - 4y = 0$
   \[ y = -\frac{5}{4}x \]

231) $0 = y - 6x - 4$
   \[ y = 6x + 4 \]

233) $3 - x = -y$
   \[ y = x - 3 \]

216) $10 = x - 5y$
   \[ y = \frac{1}{5}x - 2 \]

218) $4 + 7x = -2y$
   \[ y = -\frac{7}{2}x - 2 \]

220) $-5y = 17 - 2x$
   \[ y = \frac{2}{5}x - \frac{17}{5} \]

222) $\frac{1}{6}y = -x - \frac{1}{3}$
   \[ y = -6x - 2 \]

224) $-7x = 3y + 26$
   \[ y = -\frac{7}{3}x - \frac{26}{3} \]

226) $y - x = -1$
   \[ y = x - 1 \]

228) $-1 - y = 0$
   \[ y = -1 \]

230) $-3x + 1 = -y$
   \[ y = 3x - 1 \]

232) $-8 - 4y = -3x$
   \[ y = \frac{3}{4}x - 2 \]

234) $0 = -10 - 2y + x$
   \[ y = \frac{1}{2}x - 5 \]
235) \(4y - 3x = -20\)
\[
y = \frac{3}{4}x - 5
\]

236) \(-2 + x = 0\)
\[
x = 2
\]

237) \(10 - 7y = -5x\)
\[
y = \frac{5}{7}x + \frac{10}{7}
\]

238) \(3 + x = -y\)
\[
y = -x - 3
\]

239) \(-y + 4 + x = 0\)
\[
y = x + 4
\]

240) \(4x = -15 + 5y\)
\[
y = \frac{4}{5}x + 3
\]

241) \(0 = 5x - 6 - y\)
\[
y = 5x - 6
\]

242) \(-5 + 5y = -x\)
\[
y = -\frac{1}{5}x + 1
\]

243) \(-4 = y\)
\[
y = -4
\]

244) \(-2 - y = x\)
\[
y = -x - 2
\]

245) \(3x - 9 = 0\)
\[
x = 3
\]

246) \(2x = -5 + 3y\)
\[
y = \frac{2}{3}x + \frac{5}{3}
\]

247) \(-16 + 4y = 6x\)
\[
y = \frac{3}{2}x + 4
\]

248) \(15 - 7x = 5y\)
\[
y = -\frac{7}{5}x + 3
\]

249) \(-6 = -2y + 5x\)
\[
y = \frac{5}{2}x + 3
\]

250) \(-6 = -3x + 2y\)
\[
y = \frac{3}{2}x - 3
\]

251) \(-5x - 10 = 7y\)
\[
y = -\frac{5}{7}x - \frac{10}{7}
\]

252) \(12 - 5x = 4y\)
\[
y = -\frac{5}{4}x + 3
\]

253) \(0 = -y - 3 - 3x\)
\[
y = -3x - 3
\]

254) \(1 = 3x - 4y\)
\[
y = \frac{3}{4}x - \frac{1}{4}
\]

255) \(0 = -15 - 3y - 10x\)
\[
y = -\frac{10}{3}x - 5
\]

256) \(\frac{6}{5}x = 3 + 3y\)
\[
y = \frac{2}{5}x - 1
\]
257) \(-2 = x - y\)
   \[ y = x + 2 \]

259) \(-y - x + 3 = 0\)
   \[ y = -x + 3 \]

261) \(-1 - y = 3x\)
   \[ y = -3x - 1 \]

263) \(-6 + x = 2y\)
   \[ y = \frac{1}{2}x - 3 \]

265) \(6 - 6y + 9x = 0\)
   \[ y = \frac{3}{2}x + 1 \]

267) \(-6y = -x + 29\)
   \[ y = \frac{1}{6}x - \frac{29}{6} \]

269) \(8 = x - 4y\)
   \[ y = \frac{1}{4}x - 2 \]

271) \(-2y + x = 4\)
   \[ y = \frac{1}{2}x - 2 \]

273) \(-1 + \frac{3}{10}x = \frac{1}{5}y\)
   \[ y = \frac{3}{2}x - 5 \]

275) \(15x = -3y - 6\)
   \[ y = -5x - 2 \]

277) \(2 = -y - \frac{5}{3}x\)
   \[ y = \frac{5}{3}x - 2 \]

258) \(2x = -6 - 4y\)
   \[ y = -\frac{1}{2}x - \frac{3}{2} \]

260) \(0 = -30 + 3x + 9y\)
   \[ y = -\frac{1}{3}x + \frac{10}{3} \]

262) \(-2x - y - 2 = 0\)
   \[ y = -2x - 2 \]

264) \(-2y = -6 - 3x\)
   \[ y = \frac{3}{2}x + 3 \]

266) \(-y - x = 1\)
   \[ y = -x - 1 \]

268) \(-9x + 60 = 21y\)
   \[ y = -\frac{3}{7}x + \frac{20}{7} \]

270) \(20 + 4y = -7x\)
   \[ y = -\frac{7}{4}x - 5 \]

272) \(-2 - x = 0\)
   \[ x = -2 \]

274) \(-5y = -25 - x\)
   \[ y = \frac{1}{5}x + 5 \]

276) \(0 = -x - 5\)
   \[ x = -5 \]

278) \(-8x + 5 - y = 0\)
   \[ y = -8x + 5 \]
279) \( 0 = y + 5 \)
\[ y = -5 \]

280) \( 4x - 2y = -6 \)
\[ y = 2x + 3 \]

281) \( -y + 5 = 9x \)
\[ y = -9x + 5 \]

282) \( 5x - 3 - 7y = 0 \)
\[ y = \frac{5}{7}x - \frac{3}{7} \]

283) \( -7y - 5x - 8 = 0 \)
\[ y = \frac{-5x - 8}{7} \]

284) \( 0 = -2 - 3x - 2y \)
\[ y = \frac{-3}{2}x - 1 \]

285) \( y - 5 = 2x \)
\[ y = 2x + 5 \]

286) \( 1 - 4x - y = 0 \)
\[ y = -4x + 1 \]

287) \( 6 - 10y = -4x \)
\[ y = \frac{2}{5}x + \frac{3}{5} \]

288) \( 3y = -2x + 5 \)
\[ y = -\frac{2}{3}x + \frac{5}{3} \]

289) \( 4 = y \)
\[ y = 4 \]

289) \( 4 = y \)
\[ y = 4 \]

290) \( -2y + 5x = 0 \)
\[ y = \frac{5}{2}x \]

291) \( -y - \frac{25}{2} = -\frac{5}{2}x \)
\[ y = \frac{5}{2}x - \frac{25}{2} \]

292) \( -7x - 3 = y \)
\[ y = -7x - 3 \]

293) \( x = -y + 1 \)
\[ y = -x + 1 \]

294) \( 3x + 24 + 6y = 0 \)
\[ y = -\frac{1}{2}x - 4 \]

295) \( \frac{3}{2}y = x - \frac{15}{2} \)
\[ y = \frac{2}{3}x - 5 \]

296) \( -y + x = 2 \)
\[ y = x - 2 \]

297) \( 4y = -3x \)
\[ y = -\frac{3}{4}x \]

298) \( 7y = 8 - 4x \)
\[ y = -\frac{4}{7}x + \frac{8}{7} \]

299) \( 3 - 8x = y \)
\[ y = -8x + 3 \]

300) \( 3y - 9 + 5x = 0 \)
\[ y = -\frac{5}{3}x + 3 \]
Write down slope-intercept from given point and slope:

301) through: \((3, 5)\), \(\text{slope} = \frac{5}{3}\) \(y = \frac{5}{3}x\)

303) through: \((4, -5)\), \(\text{slope} = -\frac{3}{2}\) \(y = -\frac{3}{2}x + 1\)

305) through: \((-5, 4)\), \(\text{slope} = -\frac{1}{5}\) \(y = -\frac{1}{5}x + 3\)

307) through: \((0, -5)\), \(\text{slope} = -6\) \(y = -6x - 5\)

309) through: \((4, 4)\), \(\text{slope} = \text{undefined}\) \(x = 4\)

311) through: \((-2, -1)\), \(\text{slope} = \text{undefined}\) \(x = -2\)

313) through: \((1, -3)\), \(\text{slope} = \text{undefined}\) \(x = 1\)

315) through: \((-1, 4)\), \(\text{slope} = -\frac{2}{3}\) \(y = -\frac{2}{3}x + \frac{10}{3}\)

317) through: \((4, 5)\), \(\text{slope} = \frac{3}{2}\) \(y = \frac{3}{2}x - 1\)

319) through: \((-3, -2)\), \(\text{slope} = \frac{7}{3}\) \(y = \frac{7}{3}x + 5\)

321) through: \((5, 5)\), \(\text{slope} = \frac{5}{9}\) \(y = \frac{5}{9}x + \frac{20}{9}\)

323) through: \((2, 3)\), \(\text{slope} = \frac{3}{2}\) \(y = \frac{3}{2}x\)

325) through: \((-1, 4)\), \(\text{slope} = \text{undefined}\) \(x = -1\)

327) through: \((-2, 4)\), \(\text{slope} = 0\) \(y = 4\)

302) through: \((3, -5)\), \(\text{slope} = -\frac{7}{3}\) \(y = -\frac{7}{3}x + 2\)

304) through: \((-2, -1)\), \(\text{slope} = -2\) \(y = -2x - 5\)

306) through: \((3, -3)\), \(\text{slope} = \frac{2}{3}\) \(y = \frac{2}{3}x - 5\)

308) through: \((-2, 4)\), \(\text{slope} = 0\) \(y = 4\)

310) through: \((-1, -3)\), \(\text{slope} = 2\) \(y = 2x - 1\)

312) through: \((3, 0)\), \(\text{slope} = -\frac{1}{3}\) \(y = -\frac{1}{3}x + 1\)

314) through: \((2, 0)\), \(\text{slope} = \text{undefined}\) \(x = 2\)

316) through: \((-2, 4)\), \(\text{slope} = -2\) \(y = -2x\)

318) through: \((3, -3)\), \(\text{slope} = \text{undefined}\) \(x = 3\)

320) through: \((4, 5)\), \(\text{slope} = \frac{9}{4}\) \(y = \frac{9}{4}x - 4\)

322) through: \((-3, 5)\), \(\text{slope} = -\frac{2}{3}\) \(y = -\frac{2}{3}x + 3\)

324) through: \((-3, -5)\), \(\text{slope} = -4\) \(y = -4x - 17\)

326) through: \((-4, 2)\), \(\text{slope} = -\frac{1}{4}\) \(y = -\frac{1}{4}x + 1\)
327) through: \((0, 2)\), slope = \(-2\)
\[y = -2x + 2\]

328) through: \((-1, 0)\), slope = \(-\frac{1}{4}\)
\[y = -\frac{1}{4}x - \frac{1}{4}\]

329) through: \((5, 1)\), slope = \(-\frac{1}{5}\)
\[y = -\frac{1}{5}x + 2\]

330) through: \((-2, -1)\), slope = \(\frac{3}{2}\)
\[y = \frac{3}{2}x + 2\]

331) through: \((3, -1)\), slope = \(-3\)
\[y = -3x + 8\]

332) through: \((4, -2)\), slope = \(\frac{1}{2}\)
\[y = \frac{1}{2}x - 4\]

333) through: \((-1, -5)\), slope = 0
\[y = -5\]

334) through: \((4, -2)\), slope = \(-\frac{3}{4}\)
\[y = -\frac{3}{4}x + 1\]

335) through: \((1, 1)\), slope = 0
\[y = 1\]

336) through: \((4, -1)\), slope = \(-1\)
\[y = -x + 3\]

337) through: \((-4, 4)\), slope = \(-\frac{7}{4}\)
\[y = -\frac{7}{4}x - 3\]

338) through: \((-2, -1)\), slope = \(-\frac{2}{3}\)
\[y = -\frac{2}{3}x - \frac{7}{3}\]

339) through: \((3, -2)\), slope = \(-\frac{7}{3}\)
\[y = -\frac{7}{3}x + 5\]

340) through: \((-2, -1)\), slope = \(-1\)
\[y = -x - 1\]

341) through: \((-5, -2)\), slope = \(\frac{1}{4}\)
\[y = \frac{1}{4}x - \frac{3}{4}\]

342) through: \((-3, 4)\), slope = \(-\frac{9}{7}\)
\[y = -\frac{9}{7}x + \frac{1}{7}\]

343) through: \((5, -1)\), slope = \(-\frac{4}{5}\)
\[y = -\frac{4}{5}x + 3\]

344) through: \((-3, 4)\), slope = \(-1\)
\[y = -x + 3\]

345) through: \((1, 0)\), slope = 0
\[y = 0\]

346) through: \((-1, -2)\), slope = 5
\[y = 5x + 3\]

347) through: \((-3, -2)\), slope = \(-\frac{1}{8}\)
\[y = -\frac{1}{8}x - \frac{19}{8}\]

348) through: \((-2, 1)\), slope = \(-\frac{5}{2}\)
\[y = -\frac{5}{2}x - 4\]

349) through: \((2, -2)\), slope = \(\frac{1}{2}\)
\[y = \frac{1}{2}x - 3\]

350) through: \((5, 4)\), slope = \(\frac{1}{5}\)
\[y = \frac{1}{5}x + 3\]

351) through: \((-2, 3)\), slope = \(\frac{1}{2}\)
\[y = \frac{1}{2}x + 4\]

352) through: \((-3, -2)\), slope = \(\frac{1}{3}\)
\[y = \frac{1}{3}x - 1\]
353) through: $(-3, 0)$, slope $= \frac{-1}{3}$
   
   \[ y = -\frac{1}{3}x - 1 \]
354) through: $(1, -4)$, slope $= 3$
   
   \[ y = 3x - 1 \]

355) through: $(-1, -1)$, slope $= 1$
   
   \[ y = x \]
356) through: $(1, -4)$, slope $= \frac{1}{5}$
   
   \[ y = \frac{1}{5}x - \frac{21}{5} \]

357) through: $(1, 4)$, slope $= 3$
   
   \[ y = 3x + 1 \]
358) through: $(3, 1)$, slope $= 4$
   
   \[ y = 4x - 11 \]

359) through: $(1, 4)$, slope $= 1$
   
   \[ y = x + 3 \]
360) through: $(4, 3)$, slope $= 4$
   
   \[ y = 4x - 13 \]

361) through: $(5, 0)$, slope $= \frac{1}{6}$
   
   \[ y = \frac{1}{6}x - \frac{5}{6} \]
362) through: $(4, 4)$, slope $= -\frac{1}{4}$
   
   \[ y = -\frac{1}{4}x + 5 \]

363) through: $(-4, 4)$, slope $= -\frac{1}{2}$
   
   \[ y = -\frac{1}{2}x + 2 \]
364) through: $(1, 5)$, slope $= 2$
   
   \[ y = 2x + 3 \]

365) through: $(5, 2)$, slope $= \frac{4}{5}$
   
   \[ y = \frac{4}{5}x - 2 \]
366) through: $(-2, -2)$, slope $= \frac{5}{2}$
   
   \[ y = \frac{5}{2}x + 3 \]

367) through: $(5, 5)$, slope $= \frac{1}{5}$
   
   \[ y = \frac{1}{5}x + 4 \]
368) through: $(-5, -4)$, slope $= \frac{9}{5}$
   
   \[ y = \frac{9}{5}x + 5 \]

369) through: $(1, -5)$, slope $= -2$
   
   \[ y = -2x - 3 \]
370) through: $(1, 3)$, slope $= 2$
   
   \[ y = 2x + 1 \]

371) through: $(-5, -2)$, slope $= 0$
   
   \[ y = -2 \]
372) through: $(-1, -1)$, slope $= \frac{1}{5}$
   
   \[ y = \frac{1}{5}x - \frac{4}{5} \]

373) through: $(-1, -5)$, slope $= 3$
   
   \[ y = 3x - 2 \]
374) through: $(1, 1)$, slope $= 5$
   
   \[ y = 5x - 4 \]

375) through: $(-3, 2)$, slope $= \frac{3}{2}$
   
   \[ y = \frac{3}{2}x + \frac{13}{2} \]
376) through: $(0, -2)$, slope $= -\frac{2}{3}$
   
   \[ y = -\frac{2}{3}x - 2 \]

377) through: $(-5, 4)$, slope $= -\frac{2}{5}$
   
   \[ y = -\frac{2}{5}x + 2 \]
378) through: $(-5, 2)$, slope $= -\frac{2}{5}$
   
   \[ y = -\frac{2}{5}x \]

379) through: $(3, 4)$, slope $= \frac{5}{3}$
   
   \[ y = \frac{5}{3}x - 1 \]
380) through: $(4, 1)$, slope $= -\frac{3}{4}$
   
   \[ y = -\frac{3}{4}x + 4 \]
381) through: $(5, 5)$, slope $= \frac{3}{8}$ \hspace{1cm} 382) through: $(4, -3)$, slope $=-2$ \hspace{1cm} 383) through: $(5, -5)$, slope $= -\frac{4}{5}$ \hspace{1cm} 384) through: $(1, 0)$, slope $= 1$ \hspace{1cm} 385) through: $(-5, -1)$, slope $= -\frac{4}{5}$ \hspace{1cm} 386) through: $(3, 2)$, slope $= 0$ \hspace{1cm} 387) through: $(-4, 3)$, slope $= -\frac{1}{2}$ \hspace{1cm} 388) through: $(-5, 2)$, slope = undefined \hspace{1cm} 389) through: $(-4, -2)$, slope $= \frac{3}{2}$ \hspace{1cm} 390) through: $(-3, 1)$, slope $= -\frac{5}{3}$ \hspace{1cm} 391) through: $(4, -5)$, slope $= -3$ \hspace{1cm} 392) through: $(5, 3)$, slope $= \frac{1}{5}$ \hspace{1cm} 393) through: $(2, -3)$, slope $= -\frac{7}{2}$ \hspace{1cm} 394) through: $(5, -4)$, slope $= -\frac{9}{5}$ \hspace{1cm} 395) through: $(5, -2)$, slope $= \frac{1}{5}$ \hspace{1cm} 396) through: $(1, -1)$, slope $= -2$ \hspace{1cm} 397) through: $(3, 5)$, slope $= \frac{8}{3}$ \hspace{1cm} 398) through: $(2, -1)$, slope $= 1$ \hspace{1cm} 399) through: $(-4, 2)$, slope $= \frac{3}{4}$ \hspace{1cm} 400) through: $(-2, 2)$, slope $= \frac{4}{3}$

Write down slope-intercept from given points:

401) through: $(3, 0)$ and $(-1, 2)$ \hspace{1cm} 402) through: $(2, -3)$ and $(-2, 2)$ \hspace{1cm} 403) through: $(-4, -3)$ and $(0, 1)$ \hspace{1cm} 404) through: $(0, 0)$ and $(5, 2)$ \hspace{1cm} 405) through: $(-3, 1)$ and $(-1, 5)$ \hspace{1cm} 406) through: $(5, 2)$ and $(0, -4)$

\[
y = -\frac{1}{2}x + \frac{3}{2}
\]

\[
y = \frac{2}{5}x + \frac{14}{3}
\]

\[
y = -\frac{5}{4}x + \frac{1}{2}
\]

\[
y = \frac{2}{5}x
\]

\[
y = \frac{6}{5}x - 4
\]
407) through: 
\( (0, -5) \) and 
\( (2, 4) \)
\[ y = \frac{9}{2} x - 5 \]

409) through: 
\( (0, -3) \) and 
\( (-3, 0) \)
\[ y = -x - 3 \]

411) through: 
\( (-4, -4) \) and 
\( (-3, -4) \)
\[ y = -4 \]

413) through: 
\( (3, 0) \) and 
\( (0, -5) \)
\[ y = \frac{5}{3} x - 5 \]

415) through: 
\( (0, 3) \) and 
\( (2, -3) \)
\[ y = -3x + 3 \]

417) through: 
\( (0, -5) \) and 
\( (-4, 1) \)
\[ y = -\frac{3}{2} x - 5 \]

419) through: 
\( (2, 3) \) and 
\( (-4, 0) \)
\[ y = \frac{1}{2} x + 2 \]

421) through: 
\( (3, -2) \) and 
\( (-1, 0) \)
\[ y = -\frac{1}{2} x + \frac{1}{2} \]

423) through: 
\( (-2, -3) \) and 
\( (5, -3) \)
\[ y = -3 \]

425) through: 
\( (5, 3) \) and 
\( (2, -1) \)
\[ y = \frac{4}{3} x - \frac{11}{3} \]

427) through: 
\( (1, 0) \) and 
\( (-3, -4) \)
\[ y = x - 1 \]

429) through: 
\( (0, -3) \) and 
\( (-2, 1) \)
\[ y = -2x - 3 \]

431) through: 
\( (-2, -5) \) and 
\( (0, 2) \)
\[ y = \frac{7}{2} x + 2 \]

433) through: 
\( (-2, 4) \) and 
\( (0, -5) \)
\[ y = -\frac{9}{2} x - 5 \]

435) through: 
\( (4, 5) \) and 
\( (2, 2) \)
\[ y = \frac{3}{2} x - 1 \]

437) through: 
\( (0, -1) \) and 
\( (3, -2) \)
\[ y = -\frac{1}{3} x - 1 \]

439) through: 
\( (-5, -2) \) and 
\( (-4, 1) \)
\[ y = 3x + 13 \]

441) through: 
\( (-2, 1) \) and 
\( (-2, -1) \)
\[ x = -2 \]

408) through: 
\( (1, 0) \) and 
\( (5, -1) \)
\[ y = -\frac{1}{4} x + \frac{1}{4} \]

410) through: 
\( (-1, 1) \) and 
\( (-2, 5) \)
\[ y = -4x - 3 \]

412) through: 
\( (-2, 4) \) and 
\( (0, -2) \)
\[ y = -3x - 2 \]

414) through: 
\( (0, 5) \) and 
\( (5, 1) \)
\[ y = -\frac{4}{5} x + 5 \]

416) through: 
\( (0, 5) \) and 
\( (2, -5) \)
\[ y = -5x + 5 \]

418) through: 
\( (4, -4) \) and 
\( (-2, 3) \)
\[ y = -\frac{9}{6} x + \frac{2}{3} \]

420) through: 
\( (1, -1) \) and 
\( (-5, 3) \)
\[ y = -\frac{2}{3} x - \frac{1}{3} \]

422) through: 
\( (-4, -4) \) and 
\( (0, 1) \)
\[ y = \frac{5}{4} x + 1 \]

424) through: 
\( (0, 2) \) and 
\( (3, 1) \)
\[ y = -\frac{1}{3} x + 2 \]

426) through: 
\( (-3, 4) \) and 
\( (0, 0) \)
\[ y = -\frac{4}{3} x \]

428) through: 
\( (0, 5) \) and 
\( (-1, -2) \)
\[ y = 7x + 5 \]

430) through: 
\( (-2, -5) \) and 
\( (0, 0) \)
\[ y = \frac{5}{2} x \]

432) through: 
\( (4, 2) \) and 
\( (4, -5) \)
\[ x = 4 \]

434) through: 
\( (-1, 2) \) and 
\( (0, 1) \)
\[ y = -x + 1 \]

436) through: 
\( (-2, 0) \) and 
\( (-1, 1) \)
\[ y = x + 2 \]

438) through: 
\( (-4, 3) \) and 
\( (0, -3) \)
\[ y = -\frac{3}{2} x - 3 \]

440) through: 
\( (2, 3) \) and 
\( (-2, -3) \)
\[ y = \frac{3}{2} x \]

442) through: 
\( (3, -2) \) and 
\( (4, -1) \)
\[ y = x - 5 \]
443) through: (1, -3) and (-4, 2)  
\[ y = -x - 2 \]
444) through: (-5, 4) and (-3, 0)  
\[ y = -2x - 6 \]
445) through: (1, 5) and (-3, -1)  
\[ y = \frac{3}{2}x + \frac{7}{2} \]
446) through: (0, -2) and (2, -3)  
\[ y = -\frac{1}{2}x - 2 \]
447) through: (4, 5) and (-1, -1)  
\[ y = \frac{6}{5}x + \frac{1}{5} \]
448) through: (-2, -4) and (0, -3)  
\[ y = \frac{1}{2}x - 3 \]
449) through: (2, 0) and (0, 5)  
\[ y = -\frac{5}{2}x + 5 \]
450) through: (-2, 0) and (-4, 4)  
\[ y = -2x - 4 \]
451) through: (0, 3) and (3, 2)  
\[ y = -\frac{1}{3}x + 3 \]
452) through: (0, 4) and (4, -2)  
\[ y = -\frac{3}{2}x + 4 \]
453) through: (0, 1) and (-4, 3)  
\[ y = -\frac{1}{2}x + 1 \]
454) through: (4, 5) and (2, -4)  
\[ y = \frac{9}{2}x - 13 \]
455) through: (-3, 0) and (-1, 5)  
\[ y = \frac{5}{2}x + \frac{15}{2} \]
456) through: (0, -4) and (0, -2)  
\[ x = 0 \]
457) through: (1, -2) and (4, 2)  
\[ y = \frac{4}{3}x - \frac{10}{3} \]
458) through: (3, 1) and (0, -3)  
\[ y = \frac{4}{3}x - 3 \]
459) through: (5, -1) and (-3, 0)  
\[ y = -\frac{1}{8}x - \frac{3}{8} \]
460) through: (-1, 1) and (1, -3)  
\[ y = -2x - 1 \]
461) through: (0, 0) and (-4, 5)  
\[ y = -\frac{5}{4}x \]
462) through: (1, 0) and (-5, -2)  
\[ y = \frac{1}{3}x - \frac{1}{3} \]
463) through: (0, 1) and (-1, 5)  
\[ y = -4x + 1 \]
464) through: (-3, 0) and (1, 5)  
\[ y = \frac{5}{4}x + \frac{15}{4} \]
\[ y = \frac{3}{7}x + \frac{26}{7} \]
465) through: (-5, -2) and (-2, 5)  
\[ y = \frac{7}{3}x + \frac{29}{3} \]
466) through: (3, 5) and (-4, 2)  
\[ y = \frac{3}{7}x + \frac{26}{7} \]
467) through: (0, 1) and (1, -2)  
\[ y = -3x + 1 \]
468) through: (0, 3) and (3, -4)  
\[ y = -\frac{7}{3}x + 3 \]
469) through: (0, 0) and (5, 5)  
\[ y = x \]
470) through: (2, 3) and (0, -5)  
\[ y = 4x - 5 \]
471) through: (4, 0) and (3, -3)  
\[ y = 3x - 12 \]
472) through: (3, -4) and (-2, 5)  
\[ y = -\frac{9}{5}x + \frac{7}{5} \]
473) through: (0, 3) and (2, -5)  
\[ y = -4x + 3 \]
474) through: (1, -5) and (0, 2)  
\[ y = -7x + 2 \]
475) through: (-1, -3) and (2, -4)  
\[ y = -\frac{1}{3}x - \frac{10}{3} \]
476) through: (0, 3) and (1, 1)  
\[ y = -2x + 3 \]
477) through: (0, 5) and (-5, 4)  
\[ y = \frac{1}{5}x + 5 \]
478) through: (1, -3) and (3, 5)  
\[ y = 4x - 7 \]
479) through: (5, 5) and (0, -2) \( y = \frac{7}{5}x - 2 \)

480) through: (-1, 0) and (-4, 0) \( y = 0 \)

481) through: (-1, -4) and (0, 5) \( y = 9x + 5 \)

482) through: (2, 2) and (2, 5) \( x = 2 \)

483) through: (4, -3) and (5, -5) \( y = -2x + 5 \)

484) through: (2, -4) and (-3, 4) \( y = -\frac{8}{5}x - \frac{4}{5} \)

485) through: (-2, 4) and (2, -3) \( y = -\frac{7}{4}x + \frac{1}{2} \)

486) through: (1, -1) and (5, 4) \( y = \frac{5}{4}x - \frac{9}{4} \)

487) through: (4, -5) and (0, 2) \( y = -\frac{7}{4}x + 2 \)

488) through: (0, -2) and (-1, 4) \( y = -6x - 2 \)

489) through: (0, -1) and (1, 4) \( y = 5x - 1 \)

490) through: (1, 4) and (0, 3) \( y = x + 3 \)

491) through: (4, 2) and (2, 4) \( y = -x + 6 \)

492) through: (5, 0) and (5, -4) \( x = 5 \)

493) through: (-1, 2) and (4, -2) \( y = -\frac{4}{5}x + \frac{6}{5} \)

494) through: (2, 1) and (4, 2) \( y = \frac{1}{2}x \)

495) through: (0, 2) and (1, 1) \( y = -x + 2 \)

496) through: (2, -3) and (-3, 2) \( y = -x - 1 \)

497) through: (2, -3) and (-3, -4) \( y = \frac{1}{5}x - \frac{17}{5} \)

498) through: (5, -2) and (3, -3) \( y = \frac{1}{2}x - \frac{9}{2} \)

499) through: (-4, -3) and (0, -4) \( y = -\frac{1}{4}x - 4 \)

500) through: (-4, 2) and (-1, -5) \( y = -\frac{7}{3}x - \frac{22}{3} \)

**Write down slope-intercept from given point and parallel linear functions:**

501) through: (3, -4), parallel to \( y = 3 \) \( y = -4 \)

502) through: (5, -5), parallel to \( y = -6x - 2 \) \( y = -6x + 25 \)

503) through: (-2, -2), parallel to \( y = -\frac{1}{2}x - 2 \) \( y = -\frac{1}{2}x - 3 \)

504) through: (5, 5), parallel to \( y = x + 4 \) \( y = x \)

505) through: (1, 3), parallel to \( y = -2x - 2 \) \( y = -2x + 5 \)

506) through: (-4, 0), parallel to \( y = -\frac{1}{2}x - 4 \) \( y = -\frac{1}{2}x - 2 \)

507) through: (-4, 1), parallel to \( y = \frac{1}{3}x - 5 \) \( y = \frac{1}{3}x + \frac{7}{3} \)

508) through: (-4, 4), parallel to \( y = -\frac{3}{4}x + 5 \) \( y = -\frac{3}{4}x + 1 \)

509) through: (3, 2), parallel to \( y = \frac{7}{3}x + 5 \) \( y = \frac{7}{3}x - 5 \)

510) through: (-5, -2), parallel to \( y = \frac{1}{5}x + 5 \) \( y = \frac{1}{5}x - 1 \)
511) through: $(−3, 0)$, parallel to $y = 3$
\[ y = 0 \]
512) through: $(−4, −1)$, parallel to $x = 0$
\[ x = −4 \]
513) through: $(4, 2)$, parallel to $x = 0$
\[ x = 4 \]
514) through: $(5, 5)$, parallel to $\frac{6}{5}x + 4y = \frac{6}{5}x − 1$
515) through: $(4, −4)$, parallel to $y = −x + 1$
\[ y = −x \]
516) through: $(3, −2)$, parallel to $x = 0$
\[ x = 3 \]
517) through: $(−3, −4)$, parallel to $y = −\frac{1}{3}x + 1\ y = −\frac{1}{3}x$
518) through: $(3, −5)$, parallel to $y = −\frac{5}{3}x + 4\ y = −\frac{5}{3}x$
519) through: $(−2, 4)$, parallel to $y = −\frac{1}{2}x + 1\ y = −\frac{1}{2}x$
520) through: $(−3, 1)$, parallel to $y = \frac{1}{3}x − 2\ y = \frac{1}{3}x + 2$
521) through: $(0, 4)$, parallel to $y = \frac{1}{3}x − 3\ y = \frac{1}{3}x + 4$
\[ 522) through: (1, 1), parallel to y = −x − 5 \]
\[ y = −x + 2 \]
523) through: $(−4, 0)$, parallel to $y = −\frac{3}{7}x − 4\ y = −\frac{3}{7}x$
\[ 524) through: (5, 4), parallel to y = \frac{8}{5}x + 3\ y = \frac{8}{5}x − 4 \]
525) through: $(5, −3)$, parallel to $y = −\frac{2}{9}x − 1\ y = −\frac{2}{9}x − \frac{2}{9}$
\[ 526) through: (1, −2), parallel to y = −7x − 1 \]
\[ y = −7x + 5 \]
527) through: $(2, −3)$, parallel to $y = −2x + 2\ y = −2x + 1$
\[ 528) through: (−5, 5), parallel to y = −\frac{9}{5}x + 3\ y = −\frac{9}{5}x − 4 \]
529) through: $(−4, −1)$, parallel to $y = x − 2\ y = x + 3$
530) through: $−(1, 1)$, parallel to $y = −5x + 1\ y = −5x − 4$
531) through: $(1, 5)$, parallel to $y = −5x\ y = −5x + 10$
532) through: $(1, −1)$, parallel to $x = 0\ x = 1$
533) through: $(−4, 3)$, parallel to $y = −2x + 5\ y = −2x − 5$
534) through: $(−2, 2)$, parallel to $y = x + 5\ y = x + 4$
535) through: $(−2, −2)$, parallel to $x = 0\ x = −2$
536) through: $(−4, 0)$, parallel to $y = \frac{1}{2}x − 4\ y = \frac{1}{2}x + 2$
537) through: $(3, −2)$, parallel to $y = −\frac{2}{3}x + 5\ y = −\frac{2}{3}x$
\[ 538) through: (3, 0), parallel to y = −x − 2 \]
\[ y = −x + 3 \]
539) through: \((-1, 4)\), parallel to \(y = \frac{4}{3}x - 1\)

541) through: \((4, 1)\), parallel to \(y = -3\)

542) through: \((5, 1)\), parallel to \(y = -\frac{4}{5}x - 4\)

543) through: \((-3, -2)\), parallel to \(y = \frac{2}{3}x + 5\)

544) through: \((4, -4)\), parallel to \(y = -\frac{3}{2}x - 3\)

545) through: \((1, 5)\), parallel to \(y = 8x - 5\)

546) through: \((2, 1)\), parallel to \(x = 0\)

547) through: \((3, 5)\), parallel to \(y = 2x\)

548) through: \((-2, -2)\), parallel to \(y = -\frac{3}{2}x - 1\)

549) through: \((2, -3)\), parallel to \(y = -x + 2\)

550) through: \((-1, -3)\), parallel to \(y = \frac{2}{3}x + 4\)

551) through: \((-1, -1)\), parallel to \(y = -x - 5\)

552) through: \((-3, -3)\), parallel to \(y = \frac{2}{3}x + 3\)

553) through: \((-5, -5)\), parallel to \(y = \frac{6}{5}x - 3\)

554) through: \((-1, -1)\), parallel to \(y = 6x - 1\)

555) through: \((-4, -4)\), parallel to \(y = \frac{1}{4}x + 5\)

556) through: \((2, 3)\), parallel to \(y = -\frac{3}{2}x - 5\)

557) through: \((4, 0)\), parallel to \(y = -x + 2\)

558) through: \((-5, -5)\), parallel to \(y = \frac{8}{5}x - 4\)

559) through: \((2, 0)\), parallel to \(y = -\frac{3}{2}x - 2\)

560) through: \((-4, -3)\), parallel to \(y = \frac{3}{2}x - 3\)

561) through: \((3, 0)\), parallel to \(y = -\frac{2}{3}x\)

562) through: \((3, 4)\), parallel to \(y = \frac{1}{3}x - 5\)

563) through: \((-5, 5)\), parallel to \(y = -\frac{2}{5}x - 1\)

564) through: \((-5, 2)\), parallel to \(y = -\frac{7}{5}x + 2\)
565) through: (1, -2), parallel to \( y = \frac{3}{2} x + 5 \), \( y = \frac{3}{2} x - \frac{7}{2} \)

566) through: (-5, 3), parallel to \( y = -\frac{3}{5} x + 5 \), \( y = -\frac{3}{5} x \)

567) through: (2, 4), parallel to \( y = 4x \)
\( y = 4x - 4 \)

568) through: (-2, -3), parallel to \( y = \frac{1}{5} x + 1 \), \( y = \frac{1}{5} x - \frac{13}{5} \)

569) through: (1, 5), parallel to \( y = 9x \)
\( y = 9x - 4 \)

570) through: (2, 2), parallel to \( y = \frac{3}{2} x + 4 \), \( y = \frac{3}{2} x - 1 \)

571) through: (1, -3), parallel to \( y = -7x - 3 \)
\( y = -7x + 4 \)

572) through: (-3, 4), parallel to \( y = -7x + 1 \)
\( y = -7x - 17 \)

573) through: (-1, -2), parallel to \( y = -2x + 1 \)
\( y = -2x - 4 \)

574) through: (4, 1), parallel to \( y = -2x - 5 \)
\( y = -2x + 9 \)

575) through: (-3, -2), parallel to \( y = -\frac{1}{3} x - 5 \), \( y = -\frac{1}{3} x - 3 \)
\( y = -2x \)

576) through: (1, -2), parallel to \( y = -2x + 2 \)
\( y = -2x \)

577) through: (5, 0), parallel to \( y = \frac{2}{5} x - 4 \), \( y = \frac{2}{5} x - 2 \)
\( y = -\frac{5}{3} x - 3 \)

578) through: (-5, -3), parallel to \( x = 0 \)
\( x = -5 \)

579) through: (5, -2), parallel to \( y = \frac{1}{3} x + 2 \), \( y = \frac{1}{3} x - \frac{1}{3} \)
\( y = 9x + 4 \)

580) through: (-1, -5), parallel to \( y = 9x + 5 \)
\( y = 9x + 4 \)

581) through: (1, -3), parallel to \( y = x + 2 \)
\( y = x - 4 \)

582) through: (5, 1), parallel to \( y = \frac{1}{5} x + 4 \), \( y = \frac{1}{5} x \)
\( y = \frac{1}{5} x - 4 \)

583) through: (5, -4), parallel to \( y = -\frac{3}{5} x + 4 \), \( y = -\frac{3}{5} x - 1 \)
\( y = x - 3 \)

584) through: (3, 1), parallel to \( y = x + 3 \)
\( y = x - 2 \)

585) through: (-2, -5), parallel to \( y = 4x + 1 \)
\( y = 4x + 3 \)

586) through: (1, -2), parallel to \( y = -6x + 2 \)
\( y = -6x + 4 \)

587) through: (0, -2), parallel to \( y = -\frac{5}{2} x + 4 \), \( y = -\frac{5}{2} x - 2 \)
\( y = x - 3 \)

588) through: (-1, -2), parallel to \( y = x - 5 \)
\( y = x - 1 \)

589) through: (1, 1), parallel to \( y = -2x - 5 \)
\( y = -2x + 3 \)

590) through: (4, -1), parallel to \( y = \frac{5}{4} x - 4 \), \( y = \frac{5}{4} x + 4 \)

591) through: (-3, -1), parallel to \( y = 2x + 2 \)
\( y = 2x + 5 \)
592) through: \((-5, 0)\), parallel to \(y = \frac{3}{5}x + 5\) \(y = \frac{3}{5}x + 3\)  
593) through: \((-3, -4)\), parallel to \(y = 7x - 3\)\(y = -7x - 25\)

594) through: \((-2, 4)\), parallel to \(y = -\frac{3}{2}x\) \(y = -\frac{3}{2}x + 1\)  
595) through: \((-2, -4)\), parallel to \(y = \frac{7}{2}x\) \(y = \frac{7}{2}x + 3\)

596) through: \((5, -3)\), parallel to \(y = -\frac{2}{5}x - 3\) \(y = -\frac{2}{5}x\)  
597) through: \((3, -5)\), parallel to \(y = -\frac{10}{3}x - 5\) \(y = -\frac{10}{3}x + 5\)

598) through: \((2, 3)\), parallel to \(y = 3x + 2\) \(y = 3x - 3\)  
599) through: \((4, 4)\), parallel to \(y = 3x + 1\) \(y = 3x - 8\)

600) through: \((3, 2)\), parallel to \(y = -5\) \(y = 2\)

Write down slope-intercept from given point and perpendicular function:

601) through: \((3, -3)\), perp. to \(y = \frac{3}{4}x - 2\) \(y = -\frac{4}{3}x + 1\)  
602) through: \((-1, -5)\), perp. to \(y = -x - 2\) \(y = x - 4\)

603) through: \((1, 2)\), perp. to \(y = -\frac{1}{6}x + 4\) \(y = 6x - 4\)  
604) through: \((5, -3)\), perp. to \(y = x - 1\) \(y = -x + 2\)

605) through: \((2, -1)\), perp. to \(y = \frac{1}{3}x\) \(y = -3x + 5\)  
606) through: \((-3, -1)\), perp. to \(y = -5\) \(x = -3\)

607) through: \((-4, -1)\), perp. to \(y = -\frac{6}{5}x - 4\) \(y = \frac{5}{6}x + \frac{3}{2}\)  
608) through: \((-3, 0)\), perp. to \(y = -x + 1\) \(y = x + 3\)

609) through: \((-1, 3)\), perp. to \(y = -x + 2\) \(y = x + 4\)  
610) through: \((3, 4)\), perp. to \(y = -\frac{3}{7}x - 4\) \(y = \frac{7}{3}x - 3\)

611) through: \((4, -1)\), perp. to \(y = -2x - 3\) \(y = \frac{1}{2}x - 3\)  
612) through: \((5, 4)\), perp. to \(y = -\frac{8}{3}x - 4\) \(y = \frac{3}{8}x + \frac{17}{8}\)

613) through: \((2, -5)\), perp. to \(y = \frac{2}{7}x - 3\) \(y = -\frac{7}{2}x + 2\)  
614) through: \((-4, -5)\), perp. to \(y = -4x - 2\) \(y = \frac{1}{4}x - 4\)

615) through: \((-2, 2)\), perp. to \(y = 2x - 1\) \(y = -\frac{1}{2}x + 1\)  
616) through: \((1, -5)\), perp. to \(y = \frac{1}{7}x + 5\) \(y = -7x + 2\)
617) through: \((5, -2)\), perp. to \(y = \frac{5}{3}x + 1\) \(y = -\frac{3}{5}x + 1\) 618) through: \((-1, 5)\), perp. to \(y = \frac{1}{6}x - 5\) \(y = -6x - 1\)

619) through: \((2, 2)\), perp. to \(y = x + 4\) \(y = -x + 4\) 620) through: \((-4, 3)\), perp. to \(y = \frac{4}{5}x + 2\) \(y = -\frac{5}{4}x - 2\)

621) through: \((5, -4)\), perp. to \(y = \frac{5}{4}x + 5\) \(y = -\frac{4}{5}x\) 622) through: \((-5, -5)\), perp. to \(y = -\frac{5}{3}x\) \(y = \frac{3}{5}x - 2\)

623) through: \((5, -1)\), perp. to \(y = \frac{5}{2}x + 5\) \(y = -\frac{2}{5}x + 1\) 624) through: \((1, 5)\), perp. to \(y = -\frac{5}{4}x - 3\) \(y = -4x + 9\)

625) through: \((2, 4)\), perp. to \(y = -\frac{2}{7}x + 5\) \(y = \frac{7}{2}x - 3\) 626) through: \((-1, 4)\), perp. to \(y = \frac{5}{2}x - 5\) \(y = -\frac{2}{5}x + \frac{18}{5}\)

627) through: \((5, 4)\), perp. to \(y = -4x - 3\) \(y = \frac{1}{4}x + \frac{11}{4}\) 628) through: \((-1, 0)\), perp. to \(y = -\frac{1}{4}x + 2\) \(y = 4x + 4\)

629) through: \((5, -5)\), perp. to \(y = \frac{5}{3}x + 2\) \(y = -\frac{3}{5}x - 2\) 630) through: \((4, -4)\), perp. to \(y = \frac{2}{3}x - 5\) \(y = -\frac{3}{2}x + 2\)

631) through: \((5, 5)\), perp. to \(y = -\frac{5}{4}x - 4\) \(y = \frac{4}{5}x + 1\) 632) through: \((5, -3)\), perp. to \(y = \frac{5}{6}x + 1\) \(y = -\frac{6}{5}x + 3\)

633) through: \((-5, 2)\), perp. to \(y = \frac{1}{7}x + 1\) \(y = -7x - 33\) 634) through: \((4, -5)\), perp. to \(y = 2x - 1\) \(y = -\frac{1}{2}x - 3\)

635) through: \((-2, 2)\), perp. to \(y = -\frac{3}{2}x - 5\) \(y = \frac{2}{3}x + \frac{10}{3}\) 636) through: \((5, -2)\), perp. to \(y = \frac{5}{7}x\) \(y = \frac{7}{5}x + 5\)

637) through: \((1, -1)\), perp. to \(y = x - 4\) \(y = -x\) 638) through: \((-2, -1)\), perp. to \(y = -\frac{1}{3}x + 2\) \(y = 3x + 5\)

639) through: \((1, -3)\), perp. to \(y = \frac{1}{5}x\) \(y = -5x + 2\) 640) through: \((1, 4)\), perp. to \(x = 0\) \(y = 4\)
641) through: \((2, -4)\), perp. to \(y = \frac{1}{3}x - 2\)

\[ y = -3x + 2 \]

643) through: \((-4, 5)\), perp. to \(y = -2\)

\[ x = -4 \]

645) through: \((-2, -1)\), perp. to \(y = x\)

\[ y = -x - 3 \]

647) through: \((-5, -2)\), perp. to \(x = 0\)

\[ y = -2 \]

649) through: \((-4, -4)\), perp. to \(y = -x + 4\)

\[ y = x \]

651) through: \((5, 4)\), perp. to \(y = -\frac{8}{7}x + 5\)

\[ y = \frac{7}{8}x - \frac{3}{8} \]

642) through: \((1, 1)\), perp. to \(y = -\frac{1}{3}x - 4\)

\[ y = 3x - 2 \]

644) through: \((1, -3)\), perp. to \(y = \frac{1}{4}x + 1\)

\[ y = -4x + 1 \]

646) through: \((2, -3)\), perp. to \(y = \frac{2}{5}x + 4\)

\[ y = -\frac{5}{2}x + 2 \]

648) through: \((2, 3)\), perp. to \(y = -\frac{3}{5}x + 4\)

\[ y = \frac{5}{3}x - \frac{1}{3} \]

650) through: \((-3, 1)\), perp. to \(y = -\frac{3}{2}x + 5\)

\[ y = \frac{2}{3}x + 3 \]

652) through: \((-4, 4)\), perp. to \(y = \frac{4}{3}x - 4\)

\[ y = -\frac{3}{4}x + 1 \]

654) through: \((1, -2)\), perp. to \(y = -\frac{1}{3}x + 5\)

\[ y = 3x - 5 \]

656) through: \((2, 2)\), perp. to \(y = -\frac{1}{2}x + 4\)

\[ y = 2x - 2 \]

658) through: \((-3, 1)\), perp. to \(y = -\frac{3}{4}x\)

\[ y = \frac{4}{3}x + 5 \]

660) through: \((-1, 4)\), perp. to \(y = \frac{1}{8}x\)

\[ y = -8x - 4 \]

662) through: \((-1, 5)\), perp. to \(y = \frac{3}{7}x + 3\)

\[ y = -\frac{7}{3}x + \frac{8}{3} \]

664) through: \((4, 3)\), perp. to \(y = -\frac{4}{5}x + 2\)

\[ y = \frac{5}{4}x - 2 \]
665) through: \((-2, 2)\), perp. to \(y = \frac{2}{3}x - 2\) \(y = \frac{-3}{2}x - 1\)  666) through: \((-1, -4)\), perp. to \(y = \frac{-1}{7}x\) \(y = 7x + 3\)

667) through: \((-1, 1)\), perp. to \(x = 0\) \(y = 1\)  668) through: \((5, 0)\), perp. to \(y = -5x - 1\) \(y = \frac{-1}{5}x - 1\)

669) through: \((-4, 0)\), perp. to \(y = 8x - 5\) \(y = \frac{-1}{8}x - \frac{1}{2}\)  670) through: \((2, -3)\), perp. to \(y = -2x - 1\) \(y = \frac{1}{2}x - 4\)

671) through: \((-1, 4)\), perp. to \(y = \frac{1}{3}x - 1\) \(y = -3x + 1\)  672) through: \((1, 2)\), perp. to \(y = \frac{-1}{5}x - 4\) \(y = 5x - 3\)

673) through: \((-5, 3)\), perp. to \(y = \frac{-5}{2}x + 1\) \(y = \frac{2}{5}x + 5\)  674) through: \((4, 5)\), perp. to \(y = \frac{-2}{3}x - 2\) \(y = \frac{3}{2}x - 1\)

675) through: \((4, 3)\), perp. to \(x = 0\) \(y = 3\)  676) through: \((-2, 1)\), perp. to \(y = -2\) \(x = -2\)

677) through: \((-5, -2)\), perp. to \(y = \frac{-5}{7}x + 1\) \(y = \frac{7}{5}x + 5\)  678) through: \((-4, -4)\), perp. to \(y = -3x - 1\) \(y = \frac{1}{3}x - \frac{8}{3}\)

679) through: \((-2, 3)\), perp. to \(y = -x + 5\) \(y = x + 5\)  680) through: \((-5, 2)\), perp. to \(y = 5x + 5\) \(y = \frac{-1}{5}x + 1\)

681) through: \((4, -2)\), perp. to \(y = \frac{4}{5}x + 4\) \(y = \frac{-5}{4}x + 3\)  682) through: \((3, -3)\), perp. to \(y = 0\) \(x = 3\)

683) through: \((2, 4)\), perp. to \(y = \frac{-2}{9}x\) \(y = \frac{9}{2}x - 5\)  684) through: \((4, 1)\), perp. to \(y = 9x\) \(y = \frac{-1}{9}x + \frac{13}{9}\)

685) through: \((-4, -2)\), perp. to \(y = 2x\) \(y = \frac{-1}{2}x - 4\)  686) through: \((-2, 3)\), perp. to \(y = x + 2\) \(y = -x + 1\)

687) through: \((2, -5)\), perp. to \(y = \frac{2}{5}x - 3\) \(y = \frac{-5}{2}x\)  688) through: \((1, 4)\), perp. to \(y = \frac{-1}{5}x - 4\) \(y = 5x - 1\)

689) through: \((-2, 5)\), perp. to \(y = 2x - 4\) \(y = \frac{-1}{2}x + 4\)  690) through: \((-1, 3)\), perp. to \(y = \frac{1}{3}x - 3\) \(y = -3x\)

691) through: \((1, -5)\), perp. to \(y = \frac{1}{8}x + 5\) \(y = -8x + 3\)  692) through: \((-4, 1)\), perp. to \(y = \frac{5}{4}x - 2\) \(y = \frac{-4}{5}x - \frac{11}{5}\)
693) through: \((-5, -4),\) perp. to \(y = \frac{-5}{2}x - 2\) \(\Rightarrow y = \frac{2}{5}x - \frac{1}{2}\)

694) through: \((1, -2),\) perp. to \(y = \frac{1}{6}x + 1\) \(\Rightarrow y = -6x + 4\)

695) through: \((4, 2),\) perp. to \(y = -3\) \(\Rightarrow x = 4\)

696) through: \((-5, 3),\) perp. to \(y = -3\) \(\Rightarrow x = -5\)

697) through: \((-4, 3),\) perp. to \(y = 4x\) \(\Rightarrow y = -\frac{1}{4}x + 2\)

698) through: \((3, 4),\) perp. to \(y = -\frac{3}{8}x + 5\) \(\Rightarrow y = \frac{8}{3}x - 4\)

699) through: \((-1, -3),\) perp. to \(y = -\frac{1}{4}x + 2\) \(\Rightarrow y = 4x + 1\)

700) through: \((-5, 3),\) perp. to \(y = x - 5\) \(\Rightarrow y = -x - 2\)