Properties of triangles - Triangle Inequality Theorem

State if this numbers can form sides of triangle:

1) 7, 6, 13
2) 10, 17, 6

3) 9, 7, 8
4) 5, 7, 5

5) 8, 7, 6
6) 3, 8, 5
7) 8, 15, 5  
8) 6, 5, 9  
9) 7, 9, 9  
10) 4, 6, 10  
11) 1, 10, 10  
12) 7, 7, 1  
13) 2, 9, 10  
14) 12, 7, 9
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41) 9, 5, 7

42) 10, 17, 9

43) 6, 2, 8

44) 8, 8, 2

45) 5, 5, 3

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73) 9, 12, 5  
74) 8, 17, 9  

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80)  14, 8, 6

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82)  5, 8, 6

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85)  9, 5, 4

86)  9, 9, 10
87) 7, 19, 10

88) 10, 9, 16

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90) 10, 9, 12

91) 11, 10, 6

92) 9, 1, 8

93) 10, 6, 10

94) 20, 9, 10
95) 10, 7, 18

96) 5, 10, 6

97) 9, 7, 10

98) 6, 6, 5

99) 6, 5, 7

100) 6, 9, 8

101) 1, 8, 7

102) 11, 11, 25
103) 8, 7, 17

104) 10, 5, 12

105) 13, 13, 8

106) 9, 13, 8

107) 3, 9, 12

108) 14, 7, 7

109) 10, 14, 10

110) 24, 14, 13
119) 28, 11, 14
120) 5, 10, 14

121) 14, 9, 7
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140) 18, 7, 11
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183) 7, 7, 11

184) 9, 8, 11

185) 13, 12, 27

186) 8, 9, 17

187) 27, 13, 11

188) 14, 3, 9

189) 14, 19, 10

190) 13, 10, 16
191) 16, 7, 8
192) 22, 11, 11

193) 8, 7, 7
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209) 15, 30, 48

210) 25, 41, 55

211) 43, 20, 29

212) 11, 32, 27

213) 84, 35, 38

214) 40, 35, 38
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228) 32, 85, 50

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230) 82, 37, 39
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274)  22, 45, 26

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278)  44, 5, 39
287) 43, 44, 39

288) 46, 46, 95

289) 89, 31, 49

290) 70, 27, 41

291) 30, 44, 28

292) 28, 26, 33

293) 38, 36, 2

294) 41, 40, 10
Find the range of third side of triangle:

301) 14, 17
302) 17, 18

303) 26, 24
304) 21, 26

305) 24, 20
306) 27, 20

307) 16, 28
308) 19, 22
389) 15, 21 390) 14, 20
391) 18, 16 392) 20, 22
393) 28, 15 394) 23, 19
395) 24, 24 396) 22, 14
397) 19, 27 398) 21, 24
399) 14, 26 400) 18, 22
401) 82, 71 402) 85, 58
403) 88, 97 404) 91, 58
405) 95, 97 406) 98, 84
407) 50, 96 408) 53, 84
409) 57, 71 410) 60, 84
411) 63, 71 412) 67, 58
413) 70, 71 414) 73, 58
415) 76, 97 416) 80, 58
417) 83, 96 418) 86, 84
419) 89, 96 420) 93, 84
421) 96, 71 422) 99, 58
423) 51, 71 424) 55, 58
425) 58, 97 426) 61, 58
427) 68, 84 428) 65, 96
429) 74, 84
430) 78, 71
431) 84, 71
432) 81, 83
433) 87, 58
434) 91, 71
435) 94, 58
436) 97, 97
437) 100, 58
438) 53, 96
439) 56, 84
440) 59, 96
441) 62, 84
442) 66, 71
443) 69, 83
444) 72, 71
445) 76, 58
446) 79, 71
447) 82, 58
448) 85, 96
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450) 92, 96
451) 95, 84
452) 98, 96
453) 51, 83
454) 54, 71
455) 57, 83
456) 60, 71
457) 64, 58
458) 67, 70
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462) 80, 96
463) 83, 84
464) 87, 96
465) 90, 83
466) 93, 71
467) 100, 71
468) 55, 70
469) 52, 58
470) 58, 58
471) 62, 96
472) 65, 58
473) 68, 96
474) 72, 83
475) 75, 96
476) 78, 83
477) 81, 71
478) 85, 83
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492) 96, 96
493) 54, 83
494) 64, 70
495) 74, 57
496) 77, 96
497) 84, 96
498) 87, 83
499) 94, 83
500) 90, 70
Properties of triangles - Triangle Inequality Theorem

State if these numbers can form sides of a triangle:

1) 7, 6, 13
   No

2) 10, 17, 6
   No

3) 9, 7, 8
   Yes

4) 5, 7, 5
   Yes

5) 8, 7, 6
   Yes

6) 3, 8, 5
   No
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   Yes

16) 5, 8, 8
   Yes

17) 9, 5, 16
   No

18) 5, 8, 2
   No

19) 6, 7, 6
   Yes

20) 10, 9, 8
   Yes

21) 9, 16, 7
   No

22) 16, 7, 7
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47) 8, 15, 6  
   No

48) 10, 19, 9  
   No

49) 6, 6, 1  
   Yes

50) 7, 10, 5  
   Yes

51) 10, 15, 6  
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52) 8, 13, 5  
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53) 5, 9, 5  
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54) 5, 9, 8  
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299) 33, 65, 30  
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300) 33, 35, 3  
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**Find the range of third side of triangle:**

301) 14, 17  
$3 < x < 31$

302) 17, 18  
$1 < x < 35$

303) 26, 24  
$2 < x < 50$

304) 21, 26  
$5 < x < 47$

305) 24, 20  
$4 < x < 44$

306) 27, 20  
$7 < x < 47$

307) 16, 28  
$12 < x < 44$

308) 19, 22  
$3 < x < 41$
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