The Triangle Inequality Theorem

State if the three numbers can be the measures of the sides of a triangle.

1) 7, 5, 4

2) 3, 6, 2

3) 5, 2, 4

4) 8, 2, 8

5) 9, 6, 5

6) 5, 8, 4

7) 4, 7, 8

8) 11, 12, 9

9) 3, 10, 8

10) 1, 13, 13

11) 2, 15, 16

12) 10, 18, 10

Two sides of a triangle have the following measures. Find the range of possible measures for the third side.

13) 9, 5

14) 5, 8

15) 6, 10

16) 6, 9

17) 11, 8

18) 14, 11