

Triangle Inequality Theorem

Date _____ Period _____

© 2012 Kuta Software LLC. All rights reserved.

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

1) 12, 26, 11

2) 6, 9, 8

3) 7, 3, 7

4) 12, 6, 6

5) 9, 17, 8

6) 4, 9, 8

7) 11, 10, 17

8) 6, 7, 4

9) 8, 19, 9

10) 12, 6, 14

11) 22, 11, 9

12) 11, 11, 3

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

13) 9, 11

14) 6, 8

15) 12, 7

16) 10, 12

17) 7, 10

18) 7, 8

19) 8, 10

20) 12, 6

21) 6, 9

22) 11, 7