

Triangle Inequality

Name: _____

Date: _____

For the lengths of two sides of a triangle, find the range of lengths for the third side.

1) 4, 11

2) 13, 9

3) 9, 7

4) 15, 19

5) 6, 1

6) 9, 12

7) 8, 4

8) 11, 16

9) 9, 3

10) 2, 6

11) 7, 15

12) 7, 3

13) 5, 2

14) 13, 16

15) 10, 12

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Name: _____

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For the lengths of two sides of a triangle, find the range of lengths for the third side.

1) 4, 11
 $7 < x < 15$

2) 13, 9
 $4 < x < 22$

3) 9, 7
 $2 < x < 16$

4) 15, 19
 $4 < x < 34$

5) 6, 1
 $5 < x < 7$

6) 9, 12
 $3 < x < 21$

7) 8, 4
 $4 < x < 12$

8) 11, 16
 $5 < x < 27$

9) 9, 3
 $6 < x < 12$

10) 2, 6
 $4 < x < 8$

11) 7, 15
 $8 < x < 22$

12) 7, 3
 $4 < x < 10$

13) 5, 2
 $3 < x < 7$

14) 13, 16
 $3 < x < 29$

15) 10, 12
 $2 < x < 22$