

Triangle Inequality

Name: _____

Date: _____

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

1) 14, 12

2) 15, 19

3) 11, 13

4) 21, 25

5) 27, 23

6) 14, 16

7) 17, 19

8) 11, 9

9) 14, 17

10) 3, 1

11) 17, 16

12) 18, 23

13) 14, 9

14) 19, 4

15) 10, 11

Triangle Inequality

Name: _____

Date: _____

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

1) 14, 12

$$\underline{2 < x < 26}$$

2) 15, 19

$$\underline{4 < x < 34}$$

3) 11, 13

$$\underline{2 < x < 24}$$

4) 21, 25

$$\underline{4 < x < 46}$$

5) 27, 23

$$\underline{4 < x < 50}$$

6) 14, 16

$$\underline{2 < x < 30}$$

7) 17, 19

$$\underline{2 < x < 36}$$

8) 11, 9

$$\underline{2 < x < 20}$$

9) 14, 17

$$\underline{3 < x < 31}$$

10) 3, 1

$$\underline{2 < x < 4}$$

11) 17, 16

$$\underline{1 < x < 33}$$

12) 18, 23

$$\underline{5 < x < 41}$$

13) 14, 9

$$\underline{5 < x < 23}$$

14) 19, 4

$$\underline{15 < x < 23}$$

15) 10, 11

$$\underline{1 < x < 21}$$