

Triangle Inequality

Name: _____

Date: _____

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

1) 21, 15

2) 9, 17

3) 12, 8

4) 25, 19

5) 16, 21

6) 19, 14

7) 23, 19

8) 21, 17

9) 14, 10

10) 22, 26

11) 14, 18

12) 18, 13

13) 17, 19

14) 29, 24

15) 20, 16

Triangle Inequality

Name: _____

Date: _____

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

1) 21, 15

$$\underline{6 < x < 36}$$

2) 9, 17

$$\underline{8 < x < 26}$$

3) 12, 8

$$\underline{4 < x < 20}$$

4) 25, 19

$$\underline{6 < x < 44}$$

5) 16, 21

$$\underline{5 < x < 37}$$

6) 19, 14

$$\underline{5 < x < 33}$$

7) 23, 19

$$\underline{4 < x < 42}$$

8) 21, 17

$$\underline{4 < x < 38}$$

9) 14, 10

$$\underline{4 < x < 24}$$

10) 22, 26

$$\underline{4 < x < 48}$$

11) 14, 18

$$\underline{4 < x < 32}$$

12) 18, 13

$$\underline{5 < x < 31}$$

13) 17, 19

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

14) 29, 24

$$\underline{5 < x < 53}$$

15) 20, 16

$$\underline{4 < x < 36}$$