

Triangle Inequality Theorem

(SSS)

The sum of the lengths of 2 sides of a triangle must be more than the third.

10, 8, 7 Yes!10, 4, 5 No!

Ex 1)

4 cm, 7 cm, ?

~~1~~ ~~2~~ ~~3~~ 4 5 6 7 8 9 10


7-4

$$3 < X < 11$$

7+4

Ex 2)

11 cm, 27 cm

$$16 < X < 38$$