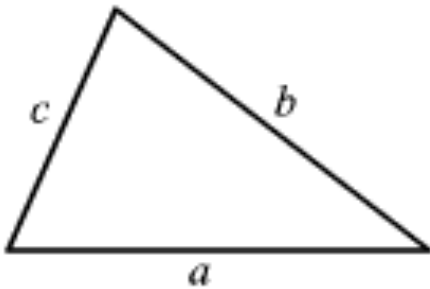


Okay! This is our last bit of material before Exam #1. Stay focused; it will be on your Exam.

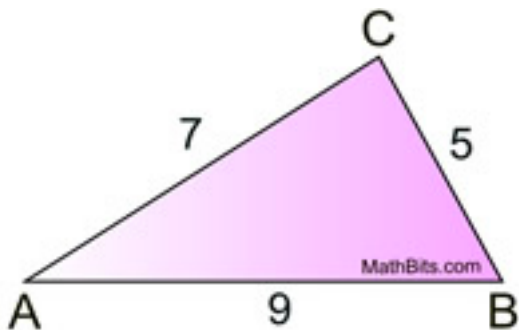
With that being said...it is THEOREM time!

THEOREM:

The sum of the lengths of any two sides of a triangle must be greater than the third side.



We should check out an example to confirm that this THEOREM is indeed true.



1.

Which set of numbers could be the lengths of the sides of a triangle?

Choose:

- {6, 9, 15} {6, 9, 12}
- {3, 3, 7} {1, 2, 3}

2. Three trees are planted. The direct distance from tree A to tree B is 200 feet. The direct distance from tree B to tree C is 300 feet. Which of the choices could be the direct distance from tree A to tree C ?

Choose:

- 650 feet 550 feet 350 feet 50 feet

3. In $\triangle ABC$, $AB = 5$ inches and $BC = 3$ inches. Which of the choices represents all possible values for AC , in inches?

Choose:

- $3 < AC < 7$ $2 < AC < 8$
- $3 \leq AC \leq 7$ $2 \leq AC \leq 8$