Name: $\qquad$

## Unit 4 - Geometry <br> 4.5B - Similar Triangles

The inside angles of a triangle always add up to $180^{\circ}$.

Find the measures of the missing angles:


Two triangles are similar if:
The corresponding angles are equal AND The ratios of the corresponding side lengths are equal
Are the following triangles similar?
1.

2.

$\triangle C B A \sim$ $\qquad$
3.

4. If the following triangles are similar, find the lengths of the missing sides.

5. If the following triangles are similar, find the lengths of the missing sides.


## Assignment

1. Are the triangles similar? If they are similar, find the lengths of the missing sides.

2. The following triangles are similar. Find the value of $x$.

3. Are the followings pairs of shapes similar or not?

4. Given that the following triangles are similar, find the length of side $x$.

