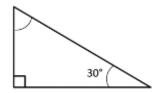
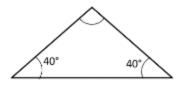
Name: \_

Unit 4 – Geometry 4.5B – Similar Triangles

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

Find the measures of the missing angles:

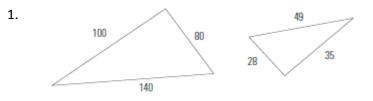


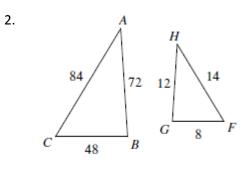


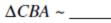
Two triangles are similar if:

The corresponding angles are equal

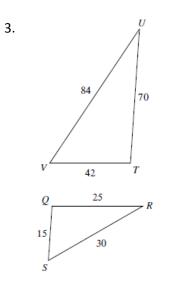
## Are the following triangles similar?



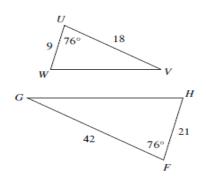




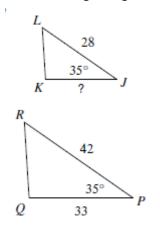
**AND** The ratios of the corresponding side lengths are equal



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

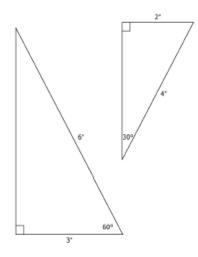


5. If the following triangles are similar, find the lengths of the missing sides.

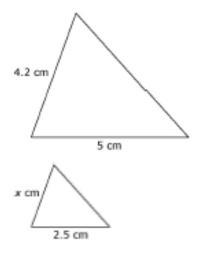


## Assignment

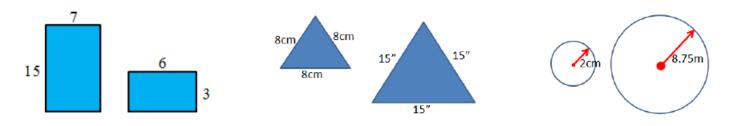
1. Are the triangles similar? If they are similar, find the lengths of the missing sides.



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*.

