

1. Pentagon ABCDE is similar to Pentagon RYMNT. Complete the following.

$$\angle C \cong \angle \underline{\hspace{2cm}}$$

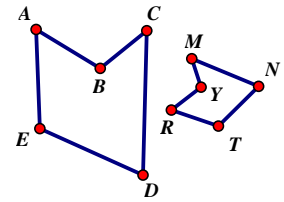
$$\frac{AB}{RY} = \frac{ED}{\boxed{\hspace{1cm}}}$$

$$\frac{MN}{RT} = \frac{CD}{\boxed{\hspace{1cm}}}$$

$$\angle T \cong \angle \underline{\hspace{2cm}}$$

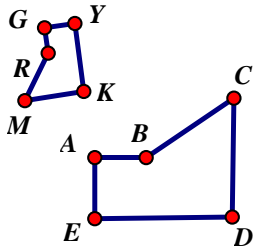
$$\frac{NT}{DE} = \frac{RT}{\boxed{\hspace{1cm}}}$$

$$\frac{AB}{BC} = \frac{RY}{\boxed{\hspace{1cm}}}$$

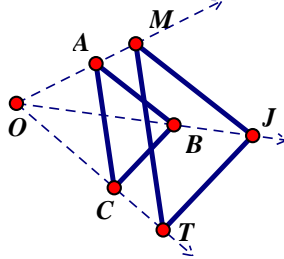


2. The two figures in each question are similar. Create the similarity statement from the diagram.

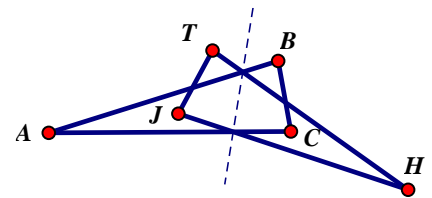
a) Pentagon GYKMR ~ _____



b) $\triangle JMT \sim$ _____

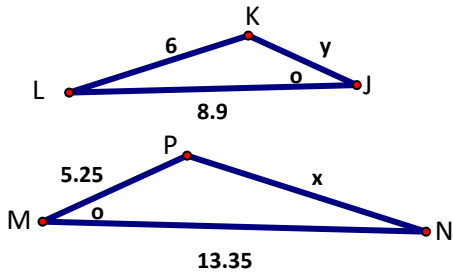


c) $\triangle BAC \sim$ _____



3. Solve for the missing information, given that the two triangles in each question are SIMILAR.

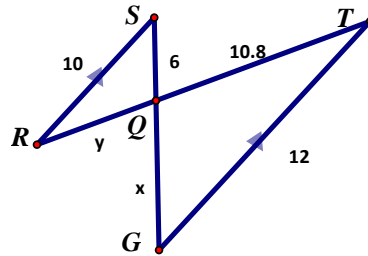
a) Similarity Statement: _____



$$x = \underline{\hspace{2cm}}$$

$$y = \underline{\hspace{2cm}}$$

b) Similarity Statement: _____

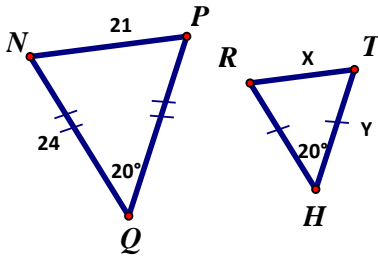


$$x = \underline{\hspace{2cm}}$$

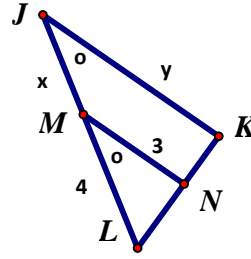
$$y = \underline{\hspace{2cm}}$$

4. Solve for the missing information, given that the two triangles in each question are SIMILAR.

a) $\triangle QNP : \triangle HRT$ is 2:1



b) $\triangle LMN : \triangle LJK$ is 5:6



$x =$ _____

$y =$ _____

$x =$ _____

$y =$ _____

5. If the three sides of a triangle are in ratio of 1:4:2 and the perimeter of the triangle is 10.5 cm. What is the length of the longest side?