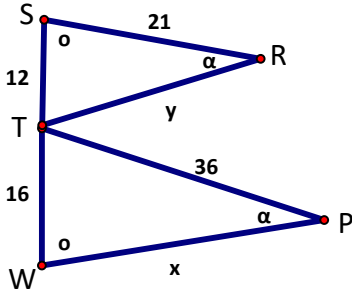


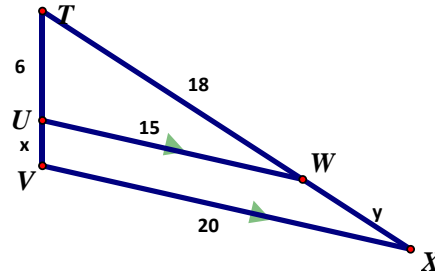
1. Solve for the missing information, given that the two triangles in each question are SIMILAR.

a) Similarity Statement: _____

b) Similarity Statement: _____



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



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

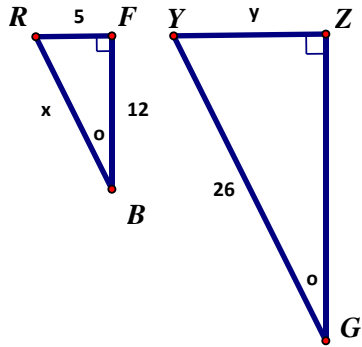
c) Given $\triangle ABC \sim \triangle DEF$, $\triangle ABC$ with sides of $AB = 5$, $BC = 6$, $AC = 7$ and $\triangle DEF$ with sides of $DE = 9$, $EF = x$, $DF = y$, draw a diagram and solve for x and y .

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

2. If the three sides of a triangle are in ratio of 2:6:7 and the perimeter of the triangle is 135 cm. What is the length of the longest side?

3. Use the Pythagorean Theorem to help you on these. Solve for the missing values.

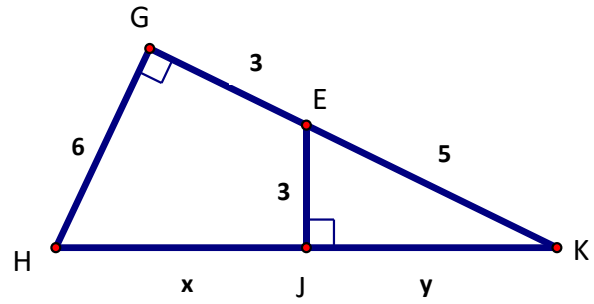
a) Similarity Statement: _____



X = _____

Y = _____

b) Similarity Statement: _____



X = _____

Y = _____

4. Given $\triangle STV \sim \triangle WQY$, complete the statements below.

a) $\angle T \cong$ _____

b) $\frac{ST}{TV} = \frac{WQ}{\square}$

c) $\angle Y \cong$ _____

d) $\frac{\square}{TV} = \frac{YW}{QY}$

5. Given $\triangle ART \sim \triangle ADE$, determine the missing values

