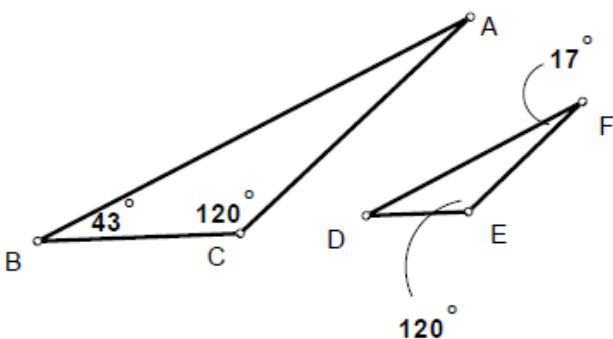
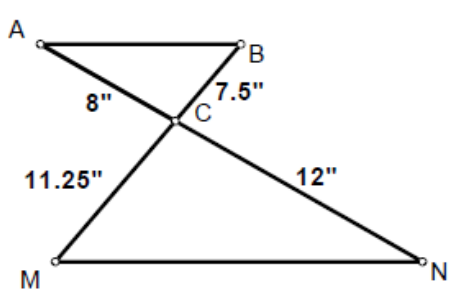
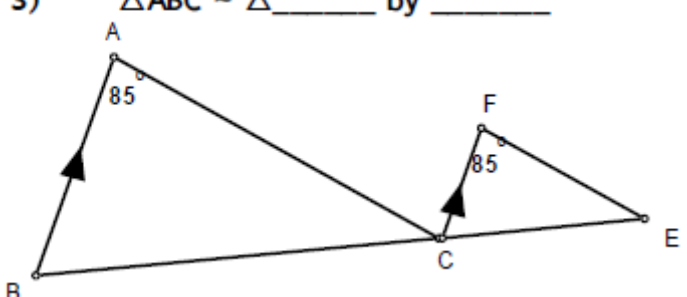
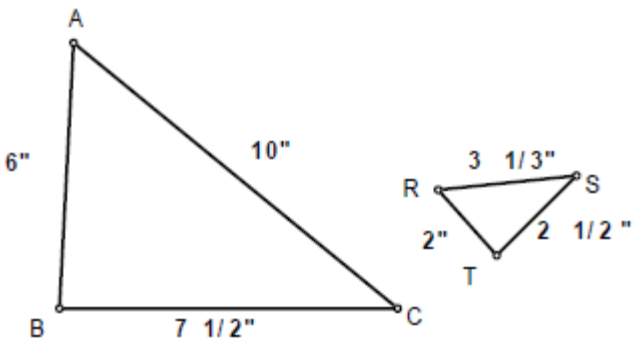
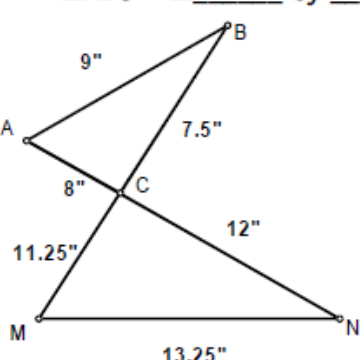
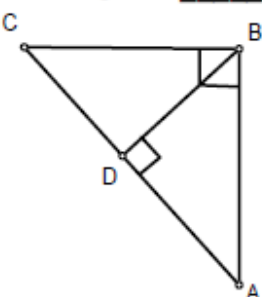


First name: \_\_\_\_\_ Last name: \_\_\_\_\_

ID: \_\_\_\_\_

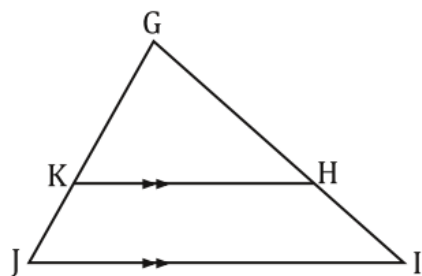
### Similar Triangles 1 Homework

1. Determine if each pair of triangles is similar. If they are similar, complete the similarity statement and state the method used to prove the similarity.

<p>1) <math>\triangle ABC \sim \triangle \underline{\hspace{1cm}}</math> by <math>\underline{\hspace{1cm}}</math></p> 	<p>2) <math>\triangle ABC \sim \triangle \underline{\hspace{1cm}}</math> by <math>\underline{\hspace{1cm}}</math></p> 
<p>3) <math>\triangle ABC \sim \triangle \underline{\hspace{1cm}}</math> by <math>\underline{\hspace{1cm}}</math></p> 	<p>4) <math>\triangle ABC \sim \triangle \underline{\hspace{1cm}}</math> by <math>\underline{\hspace{1cm}}</math></p> 
<p>5) <math>\triangle ABC \sim \triangle \underline{\hspace{1cm}}</math> by <math>\underline{\hspace{1cm}}</math></p> 	<p>6) <math>\triangle ABC \sim \triangle \underline{\hspace{1cm}}</math> by <math>\underline{\hspace{1cm}}</math>  <math>\triangle ABC \sim \triangle \underline{\hspace{1cm}}</math> by <math>\underline{\hspace{1cm}}</math></p> 

2.

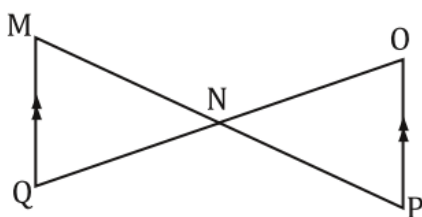
Given:  $JI \parallel KH$



Prove:  $\triangle GJI \sim \triangle KGH$

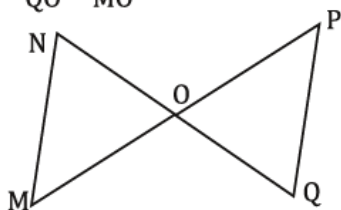
3.

Given:  $\overline{MQ} \parallel \overline{OP}$



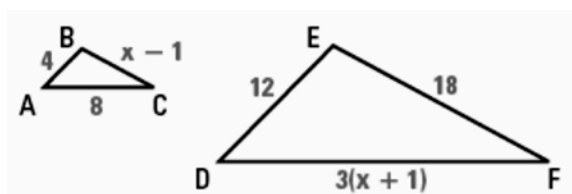
Prove:  $\triangle MNQ \sim \triangle PON$

4. Given:  $\frac{NO}{QO} = \frac{PO}{MO}$

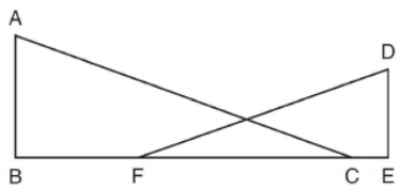


Prove:  $\triangle MNO \sim \triangle PQO$

5. Find the value of  $x$  that makes  $\triangle ABC \sim \triangle DEF$ .

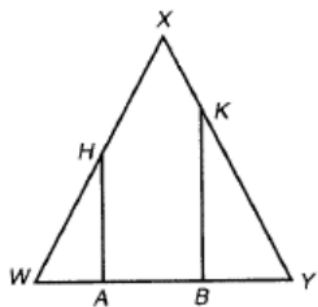


6. In the diagram below, AB and DE are perpendicular to BE,  $\angle BFD = \angle ECA$   
Prove that  $\triangle ABC \sim \triangle DEF$



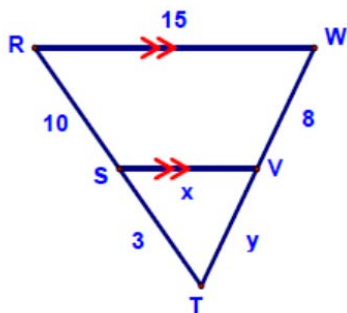
7.

Given:  $\overline{XW} \cong \overline{XY}$ ,  
 $\overline{HA} \perp \overline{WY}$ ,  $\overline{KB} \perp \overline{WY}$   
Prove:  $\triangle HWA \sim \triangle KYB$ .



8. Solve for unknowns.

a)



b)

