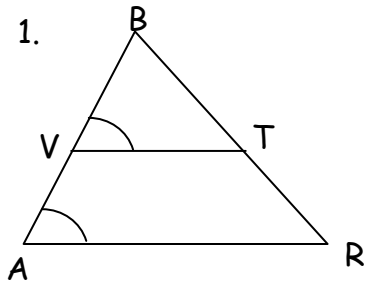
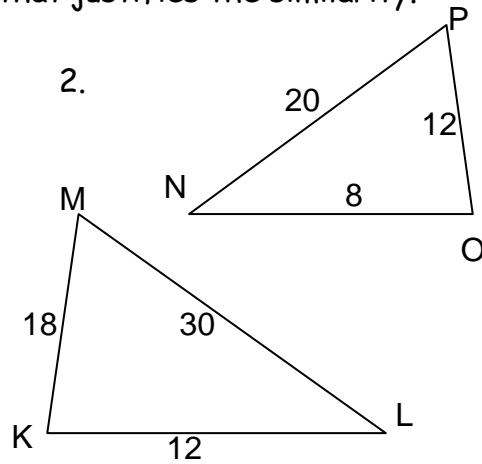


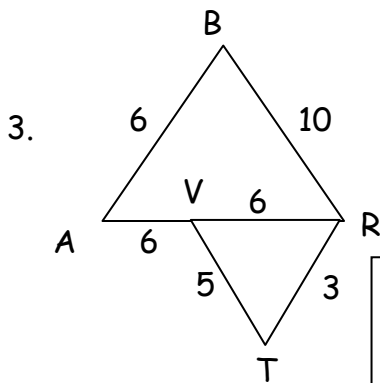
Determine whether the following triangles are similar. If so, state the similarity statement and the postulate or theorem that justifies the similarity.



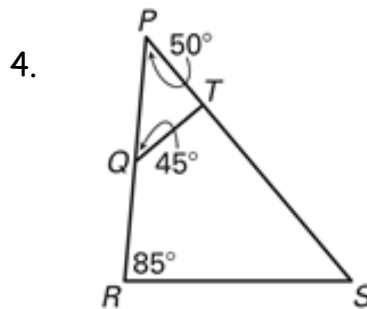
similar? yes or no  
thm? \_\_\_\_\_  
 $\triangle BVT \sim \triangle$  \_\_\_\_\_



similar? yes or no  
thm? \_\_\_\_\_  
 $\triangle PNO \sim \triangle$  \_\_\_\_\_

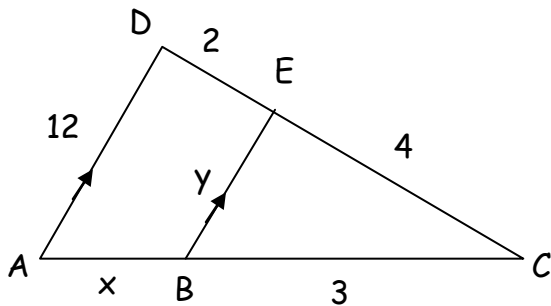


similar? yes or no  
thm? \_\_\_\_\_  
 $\triangle ABR \sim \triangle$  \_\_\_\_\_

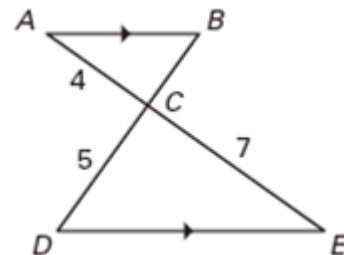


similar? yes or no  
thm? \_\_\_\_\_  
 $\triangle PRS \sim \triangle$  \_\_\_\_\_

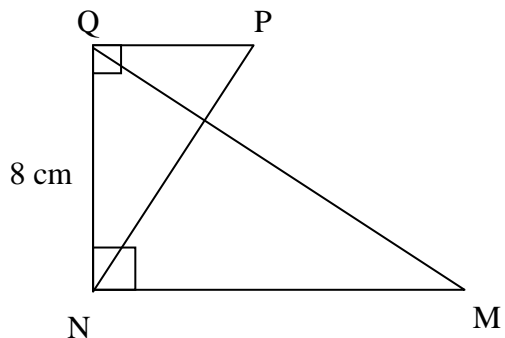
5. Find x and y.



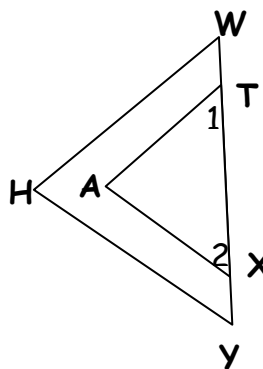
6. Find BC.



7. In the figure below,  $\triangle QNM \sim \triangle PQN$  and  $NM = 12.5$  cm. What is the value of  $QP$ ?



8. Given:  $\overline{HW} \parallel \overline{TA}$ ,  $\overline{HY} \parallel \overline{AX}$   
 Prove:  $\frac{AX}{HY} = \frac{AT}{HW}$



9. Given:  $\overline{CB} \parallel \overline{EF}$   
 Prove:  $\triangle CBD \sim \triangle FED$

