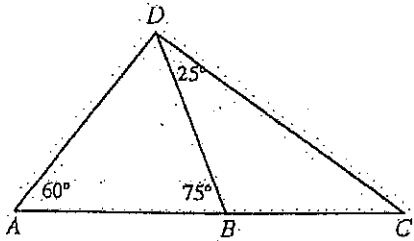
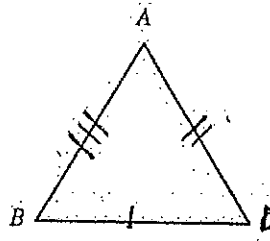


CH 4 Practice Test - Geometry

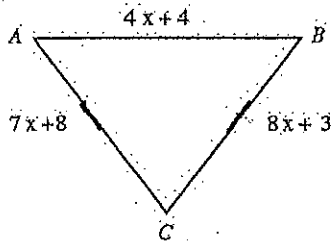
1. Classify  $\triangle DBC$  by its angles



2. Classify  $\triangle ABD$  by its side lengths



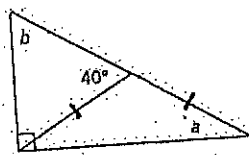
3.  $\triangle ABC$  is an isosceles triangle.  $\angle C$  is the vertex angle. Find the length of AB.



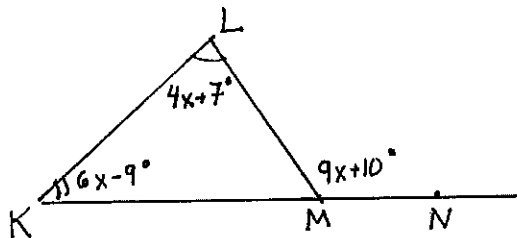
4. Solve for the variables

$a =$

$b =$

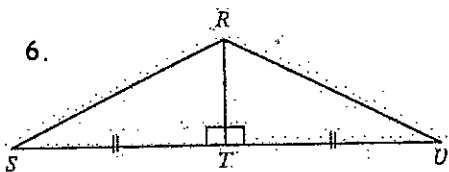


5. Solve for  $m\angle K$ .

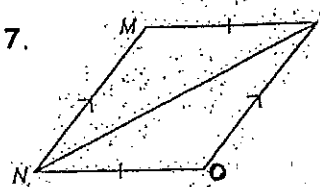


#6-10, Determine whether or not the triangles are congruent. State your reason. IF the  $\Delta$ s are congruent, then write their congruence statement (i.e. name the two congruent triangles).

6.

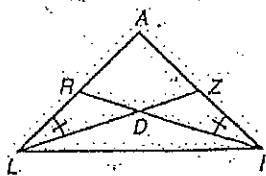


7.

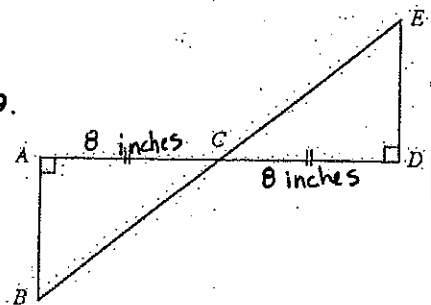


8.

$\triangle LAI$  is isosceles  
with  $LA = IA$ .

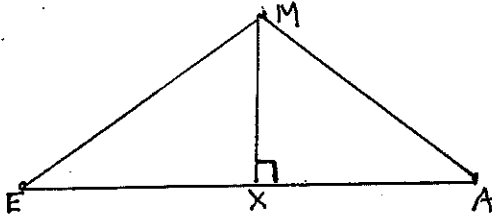


9.

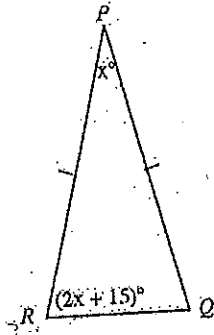


#6-10, Determine whether or not the triangles are congruent. State your reason. IF the  $\Delta$ s are congruent, then write their congruence statement (i.e. name the two congruent triangles).

10.



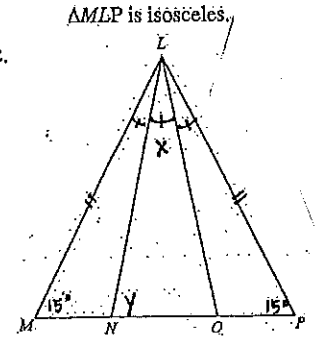
11. Solve for  $m\angle Q$ .



12. Solve for each variable.

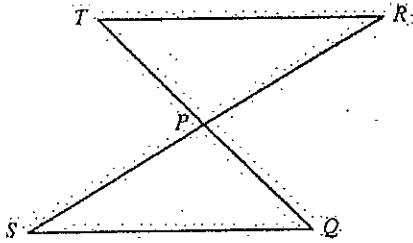
X =

Y =



#13-14, Here's what you've been waiting for! Write a two-column proof for each.

13. Given: P is the midpoint of  $\overline{TQ}$  and  $\overline{RS}$ .  
Prove:  $\Delta TPR \cong \Delta QPS$



14. Given:  $\angle CBA \cong \angle CDA$ ,  $\overline{AC}$  bisects  $\angle BAD$   
Prove:  $\overline{AD} \cong \overline{AB}$

