

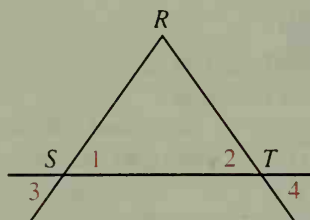
# Written Exercises

Find the value of  $x$ .

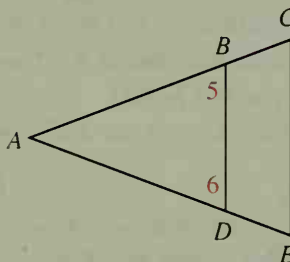
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For each exercise place the statements in an appropriate order for a proof.  
(There may be more than one correct order.)

9. Given:  $\overline{RS} \cong \overline{RT}$   
 Prove:  $\angle 3 \cong \angle 4$   
 (a)  $\angle 3 \cong \angle 4$   
 (b)  $\angle 3 \cong \angle 1$ ;  $\angle 2 \cong \angle 4$   
 (c)  $\overline{RS} \cong \overline{RT}$   
 (d)  $\angle 1 \cong \angle 2$

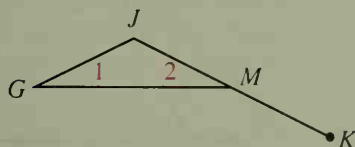


10. Given:  $\overline{BD} \parallel \overline{CE}$ ;  $\angle 5 \cong \angle 6$   
 Prove:  $\overline{AC} \cong \overline{AE}$   
 (a)  $\overline{BD} \parallel \overline{CE}$   
 (b)  $\overline{AC} \cong \overline{AE}$   
 (c)  $\angle 5 \cong \angle C$ ;  $\angle 6 \cong \angle E$   
 (d)  $\angle 5 \cong \angle 6$   
 (e)  $\angle C \cong \angle E$



Write proofs in two-column form.

11. Theorem 4-1  
 13. Given:  $M$  is the midpoint of  $\overline{JK}$ ;  
 $\angle 1 \cong \angle 2$   
 Prove:  $\overline{JG} \cong \overline{MK}$



12. Theorem 4-2  
 14. Given:  $\overline{XY} \cong \overline{XZ}$   
 Prove:  $\angle 3 \cong \angle 5$

