

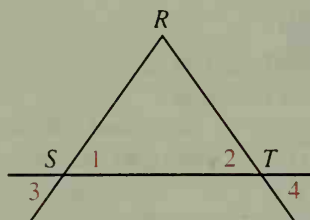
Written Exercises

Find the value of x .

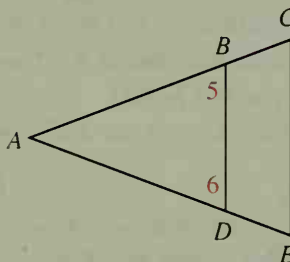
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For each exercise place the statements in an appropriate order for a proof.
(There may be more than one correct order.)

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) $\angle 1 \cong \angle 2$



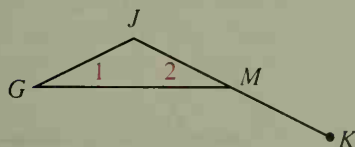
10. Given: $\overline{BD} \parallel \overline{CE}$; $\angle 5 \cong \angle 6$
 Prove: $\overline{AC} \cong \overline{AE}$
 (a) $\overline{BD} \parallel \overline{CE}$
 (b) $\overline{AC} \cong \overline{AE}$
 (c) $\angle 5 \cong \angle C$; $\angle 6 \cong \angle E$
 (d) $\angle 5 \cong \angle 6$
 (e)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



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: $\angle 3 \cong \angle 5$

