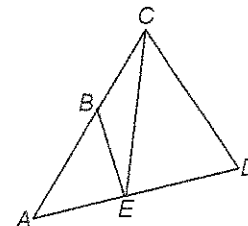


**4-6****Skills Practice*****Isosceles and Equilateral Triangles***

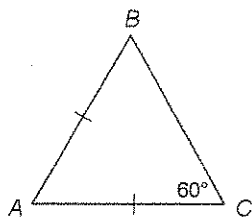
Refer to the figure at the right.



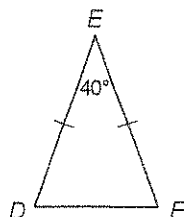
1. If  $\overline{AC} \cong \overline{AD}$ , name two congruent angles.
2. If  $\overline{BE} \cong \overline{BC}$ , name two congruent angles.
3. If  $\angle EBA \cong \angle EAB$ , name two congruent segments.
4. If  $\angle CED \cong \angle CDE$ , name two congruent segments.

Find each measure.

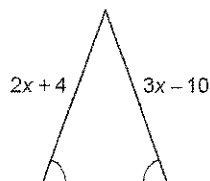
5.  $m\angle ABC$



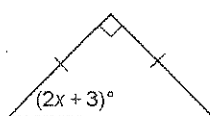
6.  $m\angle EDF$

**ALGEBRA** Find the value of each variable.

7.



8.

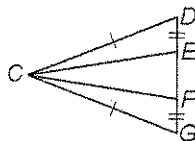


- 9.
- PROOF**
- Write a two-column proof.

Given:  $\overline{CD} \cong \overline{CG}$

$\overline{DE} \cong \overline{GF}$

Prove:  $\overline{CE} \cong \overline{CF}$

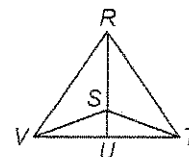


# 4-6

## Practice

### Isosceles and Equilateral Triangles

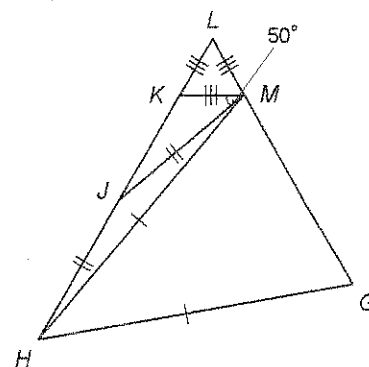
Refer to the figure at the right.



1. If  $\overline{RV} \cong \overline{RT}$ , name two congruent angles.
2. If  $\overline{RS} \cong \overline{SV}$ , name two congruent angles.
3. If  $\angle SRT \cong \angle STR$ , name two congruent segments.
4. If  $\angle STV \cong \angle SVT$ , name two congruent segments.

Find each measure.

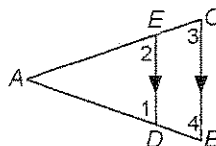
5.  $m\angle KML$
6.  $m\angle HMG$
7.  $m\angle GHM$
8. If  $m\angle HJM = 145$ , find  $m\angle MHJ$ .
9. If  $m\angle G = 67$ , find  $m\angle GHM$ .



10. **PROOF** Write a two-column proof.

**Given:**  $\overline{DE} \parallel \overline{BC}$   
 $\angle 1 \cong \angle 2$

**Prove:**  $\overline{AB} \cong \overline{AC}$



11. **SPORTS** A pennant for the sports teams at Lincoln High School is in the shape of an isosceles triangle. If the measure of the vertex angle is  $18^\circ$ , find the measure of each base angle.

