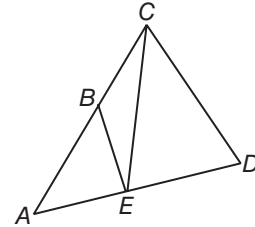## 4-6 Skills Practice

Isosceles and Equilateral Triangles
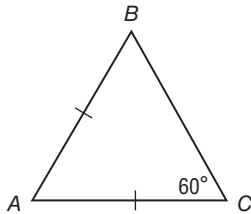
Refer to the figure at the right.
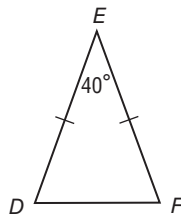
1. If $\overline{AC} \cong \overline{AD}$, name two congruent angles.
   ∠ACD ≅ ∠CDA

2. If $\overline{BE} \cong \overline{BC}$, name two congruent angles.
   ∠BEC ≅ ∠BCE

3. If $\angle EBA \cong \angle EAB$, name two congruent segments.
   $\overline{EB} \cong \overline{EA}$

4. If $\angle CED \cong \angle CDE$, name two congruent segments.
   $\overline{CE} \cong \overline{CD}$
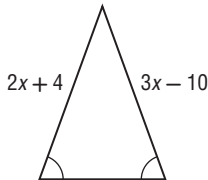
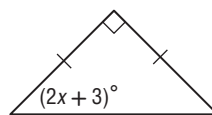**Find each measure.**

5. $m\angle ABC$ **60**

6. $m\angle EDF$ **70**

ALGEBRA Find the value of each variable.

7. **14**

$2x + 4$ $3x - 10$

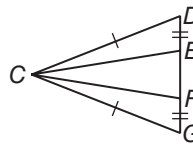8. **21**

$(2x + 3)°$

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

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

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

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

   Proof:

Statements	Reasons
1. $\overline{CD} \cong \overline{CG}$	1. Given
2. ∠D ≅ ∠G	2. If 2 sides of a △ are ≅, then the ∡ opposite those sides are ≅.
3. $\overline{DE} \cong \overline{GF}$	3. Given
4. △CDE ≅ △CGF	4. SAS
5. $\overline{CE} \cong \overline{CF}$	5. CPCTC