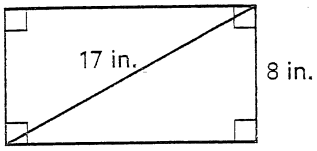
CHAPTER 6

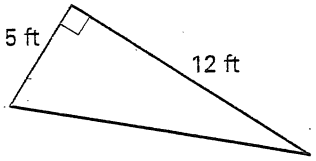
NAME _____ DATE _____

Cumulative Review

For use after Chapters 1–6

Find the perimeter and area of the figure. (1.7)

1. 

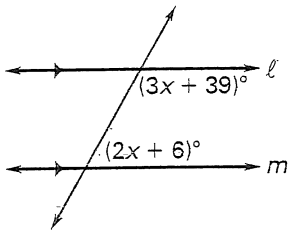
2. 

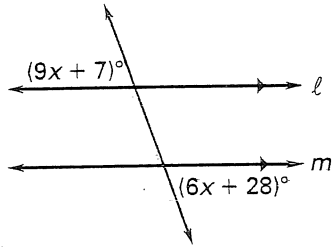
Write the converse and inverse of each statement. (2.1)

3. If I live in Dallas, then I live in Texas.

4. If $m\angle C = 140°$, then $\angle C$ is an obtuse angle.

Find the value of x that makes $\ell \parallel m$ (3.4)

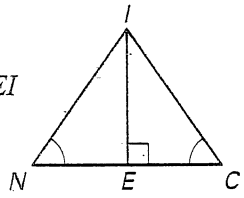
5. 

6. 

Prove the following using a two column format. (4.3, 4.4, 4.6)

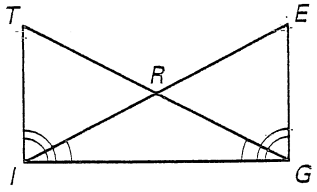
7. Given: $\overline{IE} \perp \overline{NC}$
$\angle N \cong \angle C$

Prove: $\triangle NEI \cong \triangle CEI$

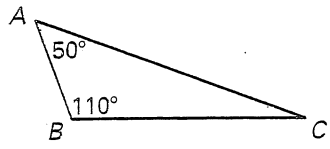


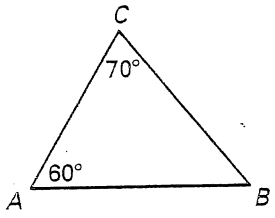
8. Given: $\angle TIG \cong \angle EGI$
$\angle EIG \cong \angle TGI$

Prove: $\overline{TI} \cong \overline{EG}$

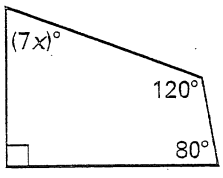


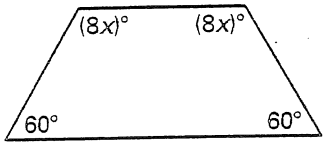
Name the shortest and longest side of each triangle. (5.5)

9. 

10. 

Use the information in the diagram to solve for x. (6.1)

11. 

12. 

Review and Assess