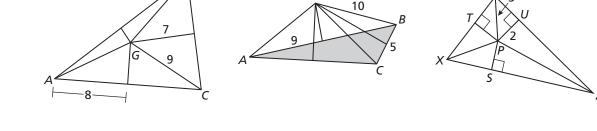
**1.** BG

## 6.3 Practice A

In Exercises 1–3, the perpendicular bisectors of  $\triangle ABC$  intersect at point *G*, or the angle bisectors of  $\triangle XYZ$  intersect at point *P*. Find the indicated measure. Tell which theorem you used.

**2.** CG

R



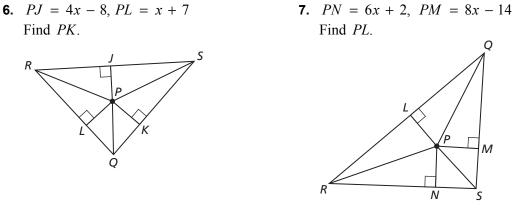
G

**3**. *PS* 

In Exercises 4 and 5, find the coordinates of the circumcenter of the triangle with the given vertices.

**4.** J(6, 0), K(0, 0), L(0, 4)**5.** U(0, 0), V(-4, 0), W(-6, 6)

In Exercises 6 and 7, *P* is the incenter of  $\triangle QRS$ . Use the given information to find the indicated measure.



- **8.** Draw an obtuse isosceles triangle. Find the circumcenter *C*. Then construct the circumscribed circle.
- **9.** A cellular phone company is building a tower at an equal distance from three large apartment buildings. Explain how you can use the figure at the right to determine the location of the cell tower.
- **10.** Your friend says that it is impossible for the circumcenter of a triangle to lie outside the triangle. Is your friend correct? Explain your reasoning.

Building 2

Building 1

Date

Building 3