

**WARM-UP EXERCISES**

For use before Lesson 9.4, pages 550–557

**Solve the equation for the missing variable. Assume all variables are positive. Express the answer in simplified radical form.**

1.  $c^2 = 6^2 + 6^2$

2.  $c^2 - 4^2 = 4^2$

3.  $c^2 - 100 = (10\sqrt{3})^2$

4.  $a^2 + 8^2 = 256$

5.  $(18\sqrt{3})^2 + b^2 = 1296$

**DAILY HOMEWORK QUIZ**

For use after Lesson 9.3, pages 542–549

**Decide whether the numbers can represent the side lengths of a triangle. If they can, classify the triangle as *right*, *acute*, or *obtuse*.**

1. 12, 35, 37

2. 22, 25, 40

3. 15, 17, 34

**Graph points  $P$ ,  $Q$ , and  $R$ . Connect the points to form  $\triangle PQR$ . Decide whether  $\triangle PQR$  is *right*, *acute*, or *obtuse*.**

4.  $P(-3, 2)$ ,  $Q(-2, -2)$ ,  $R(1, 1)$

5.  $P(1, 2)$ ,  $Q(5, -2)$ ,  $R(3, -4)$