Name

9.2 Practice A

In Exercises 1–3, find the value of *x*. Write your answer in simplest form.



In Exercises 4–6, find the values of x and y. Write your answers in simplest form.



In Exercises 7 and 8, find the area of the figure. Round decimal answers to the nearest tenth.



9. A 12-foot ladder is leaning up against a wall, as shown. How high does the ladder reach up the wall when x is 30° ? 45° ? 60° ? Round decimal answers to the nearest tenth, if necessary.



9.2 Practice B

In Exercises 1 and 2, copy and complete the table. Write your answers in simplest form.



- **3.** The side lengths of a triangle are given. Determine whether each triangle is a 45°-45°-90° triangle, a 30°-60°-90° triangle, or neither.
 - **a.** 5, 10, $5\sqrt{3}$ **b.** 7, 7, $7\sqrt{3}$ **c.** 6, 6, $6\sqrt{2}$

In Exercises 4–6, find the values of the variables. Write your answers in simplest form.



7. You build a two-person tent, as shown. How many square feet of material is needed to make the tent, assuming the tent has a floor?

