Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pd: \_\_\_\_\_ **Radical Review**

Simplify each radical expression. Assume all variables are greater than 0.

Find the area of each figure below.

1.  6. 7.



8. 9. 10.

Solve each problem. Write the exact answer in simplest radical form and also write the approximate answer rounded to the nearest tenths place. Remember to draw and label a diagram of each situation.

11. Jose’s school is two miles north of his house and the soccer fields are three miles east of his house. What is the distance from Jose’s school to the soccer fields?

12. A 10-foot ladder is placed against a house. If the base of the ladder is three and a half feet from the base of the house, how high does the ladder reach on the house?

13. One end of a guy wire will attach to a telephone pole 10 feet above the ground. The other end of the wire will attach to a bracket 30 feet from the base of the pole. How long of a wire is needed?