**The Square Root Property**

1. Solve “by inspection” each of these equations. That is, do not use paper and pencil or a calculator. Be sure to include negative as well as positive solutions.
2. b. c.

*x* = \_\_\_ , *x* = \_\_\_ *x* = \_\_\_ , *x* = \_\_\_ *x* = \_\_\_ , *x* = \_\_\_

1. For each of these equations, determine how many solutions there are (0 solutions, 1 solution, or 2 solutions).
2. b. c.
3. Graph the parabola .



Then find how many places each of these lines intersect the parabola.

a. b. c.

1. Explain how your answers in part 3 are related to your answers in part 2.
2. Use your calculator to find and . Do you get the same result for each one? \_\_\_\_\_\_ Explain.
3. Solve these equations. Leave the answers in radical form.
4. b. c.

*x* = \_\_\_ , *x* = \_\_\_ *x* = \_\_\_ , *x* = \_\_\_ *x* = \_\_\_ , *x* = \_\_\_

1. Find decimal approximations to the solutions of the equations in question 6. Round to the nearest thousandth.

*x* ≈ \_\_\_ , *x* ≈ \_\_\_ *x* ≈ \_\_\_ , *x* ≈ \_\_\_ *x* ≈ \_\_\_ , *x* ≈ \_\_\_

1. Without using a calculator estimate the location of each of these numbers on a number line.

a.  b.  c.  d.  e. 

