**Problems 1 – 4: Solve by Graphing. Show the Graph AND the Solution(s).**

**Round to the nearest hundredth when necessary.**

**1.** **2.**

****

Solution(s): **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** Solution(s): **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**3.** **4.**

****

Solution(s): **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** Solution(s): **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Problems 5 – 10: Solve by Factoring. Show the Factors AND the Solution(s).**

**5.** **6.**

Factors: Factors:

Solution(s): Solution(s):

**7.** **8.**

Factors: Factors:

Solution(s): Solution(s):

**9.** **10.**

Factors: Factors:

Solution(s): Solution(s): **Problems 11 – 16: Simplify.**

**11.** **12.** **13.**

Answer: \_\_\_\_\_\_\_\_ Answer: \_\_\_\_\_\_\_\_ Answer: \_\_\_\_\_\_\_\_

**14.** **15.** **16.**

Answer: \_\_\_\_\_\_\_\_ Answer: \_\_\_\_\_\_\_\_ Answer: \_\_\_\_\_\_\_\_

**Problems 17 – 22: Solve by using Square Roots. You must show your work to receive full credit.**

**17.** **18.**

Solution(s): Solution(s):

**Problems 17 – 22 (continued): Solve by using Square Roots. You must show your work.**

**19.**  **20.**

Solution(s): Solution(s):

**21.**  **22**.

Solution(s): Solution(s):

**23.** A rock is thrown upward from the top of a building. The height of the rock can be calculated using the function , where h(*t*) represents the height of the rock after *t* seconds. After how many seconds does the rock hit the ground. Solve by Square Roots AND by Graphing. Make sure your answers match!

Answer: