**Day 8 – Quadratic Formula Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Practice Assignment**

1. Sketch a quadratic function the following solutions. Then describe what the discriminant would look like:

1. no real solutions b) one real zero c) two real zeros



Discriminant: \_\_\_\_\_\_\_\_\_\_\_ Discriminant: \_\_\_\_\_\_\_\_\_\_\_ Discriminant: \_\_\_\_\_\_\_\_\_\_\_

2. Find the discriminant for each equation, and then find the solutions.

a)  b) 

Discriminant: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Discriminant: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Number of Solutions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Number of Solutions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Solutions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Solutions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c)  d) 

Discriminant: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Discriminant: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Number of Solutions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Number of Solutions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Solutions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Solutions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

e)  f) 5x2 – 10x = -5

Discriminant: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Discriminant: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Number of Solutions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Number of Solutions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Solutions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Solutions: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_