**11.3 – QUADRATIC FORMULA**

**If , then .**

The discriminant of a quadratic equation is represented by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

The discriminant is used to find the number of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the quadratic equation has.

**Find the number of solutions for the following quadratic equations using the discriminant. Then, solve each equation using the quadratic formula.**

1.

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

2.

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

3.

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