**Day 9 – Solving by Quadratic Formula Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Practice Assignment**

Directions: Find the discriminant and tell the number of solutions. Then solve each of the following equations using the Quadratic Formula.

**x = **

Discriminant:

# of Solutions:

X =

Discriminant:

# of Solutions:

X =

1. x2 + 4x - 2 = 0 2. 4x2 – 8x + 3 = 0

Discriminant:

# of Solutions:

X =

Discriminant:

# of Solutions:

X =

3. 5x2 – 10x + 18 = 13 4. 6x2 = -4x – 10

Discriminant:

# of Solutions:

X =

5. 2x2 – 7x - 13 = -10 6. 8x2 + 4x + 16 = - x2

Discriminant:

# of Solutions:

X =

**Error Analysis:**

Describe and correct the error Jaya made when attempting to solve using the quadratic formula.

Problem: 7x + 2x2 – 4= 3

*Jaya’s Process: Correct Process:*

7x + 2x2 – 4= 3

7x + 2x2 – 7= 0

x =

x = and

**Decision Making:**

I have a non factorable trinomial where a is 1 and b is odd, which method am I going to use?

I have a factorable trinomial where a is NOT 1 and b is odd, which method am I going to use?

I have a non factorable trinomial where a is 1 and b is even, which method am I going to use?

I have a binomial squared and its equal to some number, which method am I going to use?