Name		
UNIT	8	

**Do Now:** Solve for the *x* intercepts by completing the square, in simplest radical form:  $x^2 + 6x - 3 = 0$ 

## AIM: SOLVING QUADRATIC EQUATIONS USING THE QUADRATIC FORMULA (Day 1)

1. Solve for the *x* intercepts by using <u>the quadratic formula</u>, in simplest radical form:  $x^2 + 6x - 3 = 0$ 



**Quadratic Formula** 

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

## <u>Steps for Solving Quadratics Equations Using the</u> <u>Quadratic Formula</u>:

- 1. Put quadratic equation into standard form.
- 2. Identify the a, b & c values.
- 3. Write down the quadratic formula and substitute a, b, and c values into the formula.
- 4. Evaluate the formula and express answer according to directions. (simplest radical form or decimals)



3. To the nearest hundredth, solve for the x-intercepts:  $2x^2 + 7x = 3$ 

4. Write the solution set for the equation in simplest radical form:  $3x^2 + 2 = -6x$ 

5. To the nearest hundredth, write the solution set for the equation:  $9x^2 + 4x = 16$