

9-6 The Quadratic Formula**Answer each question as directed.**

1. Given the quadratic equation

$$2x^2 - 16x = -25$$

- What value should be used for a in the quadratic formula?
- What value should be used for b in the quadratic formula?
- What value should be used for c in the quadratic formula?

2. Given the quadratic equation

$$9x^2 + 12x + 4 = 0$$

- What is the value of the discriminant?
- Use the discriminant to tell how many solutions the equation will have.

Solve each quadratic equation using the quadratic formula. Give your answer in the form indicated.

- 3.
- Give your answer in simplified radical form.**

$$x^2 - 2x = 4$$

Answer: _____

- 4.
- Give your answer rounded to the nearest hundredth.**
- $3x^2 + 2x - 4 = 0$

Answer: _____