

9-5 Solving Quadratic Equations by Using the Quadratic Formula

Solve each equation by using the Quadratic Formula. (3 points each)

(Recommended first step: Compute the Discriminant first, then substitute it into the Quadratic Formula.)

1. $x^2 + 20x + 100 = 0$

2. $x^2 - x - 20 = 0$

3. $x^2 - 5x = 36$

4. $11x + 30 = -x^2$

5. $x^2 - 49 = 0$

(Hint: If there is no x -term, what is \mathbf{b} equal to?)

6. $x^2 + 2x = -1$