



2-6 Additional Practice

The Quadratic Formula

Use the Quadratic Formula to solve the equation. Show your work.

1. $x^2 - 15x + 7 = 0$

2. $3x^2 + 2x + 1 = 0$

Use two different methods to solve the equations. Show your work.

3. $x^2 + 4x - 5 = 0$

Use the discriminant to describe the solutions as one real, two real, or two imaginary solutions.

4. $x^2 - 15x + 12 = 0$

5. $3x^2 - 6x + 4 = 0$

6. Find the value(s) of k that will cause the equation $4x^2 + kx + 4$ to have zero real solutions, one real solution, or two real solutions.

7. Margaret runs a business. This year's revenue is given by the function $R = -0.5x^2 - 200x$. Can her revenue be at least \$25,000 this year?