

## Quadratic Formula

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation with the quadratic formula.**

1)  $v^2 + 3v + 9 = 0$

2)  $6n^2 - 96 = 0$

3)  $3n^2 + 3n - 60 = 0$

4)  $9x^2 - 10x + 4 = 0$

5)  $9x^2 + 6 = 0$

6)  $5x^2 + 5x - 100 = 0$

7)  $3b^2 + 8b - 80 = 0$

8)  $v^2 - 100 = 0$

9)  $5x^2 + 6 = 0$

10)  $4x^2 - 7x - 2 = 0$

## Answers to Quadratic Formula

$$\begin{array}{lll} 1) \left\{ \frac{-3 + 3i\sqrt{3}}{2}, \frac{-3 - 3i\sqrt{3}}{2} \right\} & 2) \{4, -4\} & 3) \{4, -5\} \\ 4) \left\{ \frac{5 + i\sqrt{11}}{9}, \frac{5 - i\sqrt{11}}{9} \right\} & 5) \left\{ \frac{i\sqrt{6}}{3}, -\frac{i\sqrt{6}}{3} \right\} & 6) \{4, -5\} \\ 7) \left\{ 4, -\frac{20}{3} \right\} & 8) \{10, -10\} & 9) \left\{ \frac{i\sqrt{30}}{5}, -\frac{i\sqrt{30}}{5} \right\} & 10) \left\{ 2, -\frac{1}{4} \right\} \end{array}$$