

## Practice: Quadratic Formula Problems.

**Solve each equation with the quadratic formula. All answers must be properly simplified. Check all rational solutions and at least one of irrational conjugate solutions.**

1)  $b^2 - 4b - 9 = 0$

2)  $n^2 + 3n - 10 = 0$

3)  $v^2 + 5v - 3 = 0$

4)  $3b^2 + 4b - 6 = 0$

5)  $x^2 + 5x - 1 = 5$

6)  $2n^2 + 4n + 5 = 4$

7)  $2a^2 - 3a - 25 = -5$

8)  $x^2 - 2x - 26 = -2$

9)  $x^2 - x - 2 = 4$

10)  $2a^2 + a = 5$

Answers to Practice: Quadratic Formula Problems. (ID: 1)

1)  $\{2 + \sqrt{13}, 2 - \sqrt{13}\}$  2)  $\{2, -5\}$

4)  $\left\{\frac{-2 + \sqrt{22}}{3}, \frac{-2 - \sqrt{22}}{3}\right\}$  5)  $\{1, -6\}$

7)  $\left\{4, -\frac{5}{2}\right\}$  8)  $\{6, -4\}$

10)  $\left\{\frac{-1 + \sqrt{41}}{4}, \frac{-1 - \sqrt{41}}{4}\right\}$

3)  $\left\{\frac{-5 + \sqrt{37}}{2}, \frac{-5 - \sqrt{37}}{2}\right\}$

6)  $\left\{\frac{-2 + \sqrt{2}}{2}, \frac{-2 - \sqrt{2}}{2}\right\}$

9)  $\{3, -2\}$