

Practice Exercises on quadratic formula June 1 to June 5

Solve each equation with the quadratic formula. Remember, all equations must be in standard form first!

1) $4n^2 - 12 = -8n$

2) $4x^2 = -4x + 35$

3) $0 = 7k - 2k^2 - 3$

4) $9n = 54 - 3n^2$

5) $0 = -x^2 - 11x + 80$

Solve each equation with the quadratic formula. All solutions must be written as simplified exact values.

6) $n^2 - 4 = -6n$

7) $3n^2 = 6 - 10n$

8) $4b^2 = 23 - 12b$

9) $7a^2 - 14 = 2a$

10) $4a^2 = 6$

Answers to Practice Exercises on quadratic formula June 1 to June 5 (ID: 1)

1) $\{1, -3\}$

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

3) $\left\{3, \frac{1}{2}\right\}$

4) $\{3, -6\}$

5) $\{5, -16\}$

6) $\{-3 + \sqrt{13}, -3 - \sqrt{13}\}$

7) $\left\{\frac{-5 + \sqrt{43}}{3}, \frac{-5 - \sqrt{43}}{3}\right\}$

8) $\left\{\frac{-3 + 4\sqrt{2}}{2}, \frac{-3 - 4\sqrt{2}}{2}\right\}$

9) $\left\{\frac{1 + 3\sqrt{11}}{7}, \frac{1 - 3\sqrt{11}}{7}\right\}$

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