

Quadratic Formula

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Solve each equation with the quadratic formula.

1) $2k^2 - 7k - 39 = 0$

2) $3x^2 - 7x - 20 = 0$

3) $5n^2 + 3n - 54 = 0$

4) $5n^2 - 125 = 0$

$$5) p^2 - 49 = 0$$

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

$$7) 6x^2 = 121 + 11x$$

$$8) 3n^2 + 7n = 6$$

$$9) 3r^2 - 10r = 125$$

$$10) 5m^2 - 125 = 0$$

$$11) 2x^2 - 2x - 19 = 0$$

$$12) 9x^2 + 9x - 1 = 0$$

$$13) 10k^2 - 18 = 0$$

$$14) 5v^2 + 8v - 16 = 0$$

$$15) 7a^2 + 6a - 5 = 0$$

$$16) 11n^2 - 4 = 9$$

$$17) 5r^2 + 3r - 18 = -11$$

$$18) p^2 + 4p - 10 = 10$$

$$19) 7x^2 - 7x - 18 = -5$$

$$20) 12m^2 + 7m - 10 = 3$$

Answers to Quadratic Formula (ID: 1)

1) $\left\{\frac{13}{2}, -3\right\}$

2) $\left\{4, -\frac{5}{3}\right\}$

3) $\left\{3, -\frac{18}{5}\right\}$

4) $\{5, -5\}$

5) $\{7, -7\}$

6) $\{2, -2\}$

7) $\left\{\frac{11}{2}, -\frac{11}{3}\right\}$

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

9) $\left\{\frac{25}{3}, -5\right\}$

10) $\{5, -5\}$

11) $\left\{\frac{1 + \sqrt{39}}{2}, \frac{1 - \sqrt{39}}{2}\right\}$

12) $\left\{\frac{-3 + \sqrt{13}}{6}, \frac{-3 - \sqrt{13}}{6}\right\}$

13) $\left\{\frac{3\sqrt{5}}{5}, -\frac{3\sqrt{5}}{5}\right\}$

14) $\left\{\frac{-4 + 4\sqrt{6}}{5}, \frac{-4 - 4\sqrt{6}}{5}\right\}$

15) $\left\{\frac{-3 + 2\sqrt{11}}{7}, \frac{-3 - 2\sqrt{11}}{7}\right\}$

16) $\left\{\frac{\sqrt{143}}{11}, -\frac{\sqrt{143}}{11}\right\}$

17) $\left\{\frac{-3 + \sqrt{149}}{10}, \frac{-3 - \sqrt{149}}{10}\right\}$

18) $\{-2 + 2\sqrt{6}, -2 - 2\sqrt{6}\}$

19) $\left\{\frac{7 + \sqrt{413}}{14}, \frac{7 - \sqrt{413}}{14}\right\}$

20) $\left\{\frac{-7 + \sqrt{673}}{24}, \frac{-7 - \sqrt{673}}{24}\right\}$