

Assignment

© 2013 Kuta Software LLC. All rights reserved.

Solve each equation with the quadratic formula.

1) $2p^2 + 11p - 13 = 0$

2) $4x^2 + 3x - 52 = 0$

3) $6n^2 - 11n - 2 = 0$

4) $4k^2 - k - 3 = 0$

$$5) 2a^2 + a - 78 = 0$$

$$6) 6v^2 + 5v - 1 = 3$$

$$7) x^2 + x - 44 = 12$$

$$8) 3a^2 + 5a - 37 = 5$$

$$9) -7 + 3n = -4n^2$$

$$10) 2k^2 = -4 - 6k$$

$$11) -7x = -4x^2 + 36$$

$$12) 6p^2 + 2p - 17 = 0$$

$$13) 7x^2 + 8x - 13 = 0$$

$$14) n^2 - 12n - 20 = 0$$

$$15) 2r^2 - 7r - 24 = -7$$

$$16) -12x^2 + 20 = 5$$

$$17) -m^2 + 8m - 1 = -8$$

$$18) -2n^2 + 16 = 0$$

$$19) -12b = -12b^2 + 21$$

$$20) 18 + 4v = 10v^2$$

Answers to Assignment (ID: 1)

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

2) $\left\{\frac{13}{4}, -4\right\}$

3) $\left\{2, -\frac{1}{6}\right\}$

4) $\left\{1, -\frac{3}{4}\right\}$

5) $\left\{6, -\frac{13}{2}\right\}$

6) $\left\{\frac{1}{2}, -\frac{4}{3}\right\}$

7) $\{7, -8\}$

8) $\left\{3, -\frac{14}{3}\right\}$

9) $\left\{1, -\frac{7}{4}\right\}$

10) $\{-1, -2\}$

11) $\left\{4, -\frac{9}{4}\right\}$

12) $\left\{\frac{-1 + \sqrt{103}}{6}, \frac{-1 - \sqrt{103}}{6}\right\}$

13) $\left\{\frac{-4 + \sqrt{107}}{7}, \frac{-4 - \sqrt{107}}{7}\right\}$

14) $\{6 + 2\sqrt{14}, 6 - 2\sqrt{14}\}$

15) $\left\{\frac{7 + \sqrt{185}}{4}, \frac{7 - \sqrt{185}}{4}\right\}$

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

17) $\{4 - \sqrt{23}, 4 + \sqrt{23}\}$

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

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

20) $\left\{\frac{1 - \sqrt{46}}{5}, \frac{1 + \sqrt{46}}{5}\right\}$