

Solving Quadratic Equations - Factoring

Solve each equation by factoring.

1) $m^2 - 12m = -35$

2) $r^2 + 56 = 15r$

3) $v^2 - 4v - 7 = -7$

4) $x^2 + 2x + 8 = 7$

5) $a^2 - 8a + 48 = 6a$

6) $x^2 - 8x - 18 = -5x$

7) $-48 + 23a = -5a^2 - 6$

8) $0 = 42x - 49x^2 - 8$

9) $33n^2 + 18n + 4 = -2n^2 - 6n$

10) $-4n = 3 - 7n^2$

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$\{5, 7\}$

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3) $v^2 - 4v - 7 = -7$

$\{4, 0\}$

4) $x^2 + 2x + 8 = 7$

$\{-1\}$

5) $a^2 - 8a + 48 = 6a$

$\{8, 6\}$

6) $x^2 - 8x - 18 = -5x$

$\{6, -3\}$

7) $-48 + 23a = -5a^2 - 6$

$\left\{\frac{7}{5}, -6\right\}$

8) $0 = 42x - 49x^2 - 8$

$\left\{\frac{4}{7}, \frac{2}{7}\right\}$

9) $33n^2 + 18n + 4 = -2n^2 - 6n$

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

10) $-4n = 3 - 7n^2$

$\left\{-\frac{3}{7}, 1\right\}$