

Factoring Quadratic Equations

Solve each equation by factoring.

1 $15a^2 + 4a - 4 = 0$

2 $10x^2 - 26x = -12$

3 $4x^2 + 2x = 12$

4 $b^2 - 17b + 70 = 0$

5 $4x^2 - 100 = 0$

6 $3v^2 + 36v + 49 = 8v$

7 $d^2 - 8d + 12 = 0$

8 $p(p + 2) = 3$

9 $x^2 + 3x + 2 = 0$

10 $x^2 + 88 = 19x$

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Answers

1 $15a^2 + 4a - 4 = 0$

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

2 $10x^2 - 26x = -12$

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

3 $4x^2 + 2x = 12$

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

4 $b^2 - 17b + 70 = 0$

$(7, 10)$

5 $4x^2 - 100 = 0$

$(5, -5)$

6 $3v^2 + 36v + 49 = 8v$

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

7 $d^2 - 8d + 12 = 0$

$(2, 6)$

8 $p(p + 2) = 3$

$(-3, 1)$

9 $x^2 + 3x + 2 = 0$

$(-1, -2)$

10 $x^2 + 88 = 19x$

$(8, 11)$