Solving Quadratic Equations by Factoring

MATH MONKS

Solve.

1. $x^2 - 11x + 28 = 0$

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2. $6x^2 - 48x - 54 = 0$

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3. $x^2 + 3x - 12 = 6$

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4. $x^2 + 5x - 35 = 3x$

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5. $7x^2 + 2x = 0$

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6. $8x^2 + 21 = -59x$

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7. $15x^2 + 80 = -80x$

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8. $x^2 + 17x + 49 = 3x$

Solving Quadratic Equations by Factoring

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Answers

1. $x^2 - 11x + 28 = 0$

(7, 4)

2. $6x^2 - 48x - 54 = 0$

(9, -1)

3. $x^2 + 3x - 12 = 6$

(3, -6)

4. $x^2 + 5x - 35 = 3x$

(-7, 5)

5. $7x^2 + 2x = 0$

$\left(-\frac{2}{7}, 0\right)$

6. $8x^2 + 21 = -59x$

$\left(-\frac{3}{8}, -7\right)$

7. $15x^2 + 80 = -80x$

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

8. $x^2 + 17x + 49 = 3x$

(-7)