MATH
MONKS

Solving Quadratic Equations

Solve each equation by factoring.

1 $6x^2 - 18x - 18 = 6$

2 $(3x - 2)(4x + 1) = 0$

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3 $3p^2 = -16p - 21$

4 $7q^2 - 38q - 24 = 0$

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5 $3v^2 + 72 = 33v$

6 $28w^2 = -96 - 184w$

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7 $z^2 + 3z - 12 = 6$

8 $(4b + 5)(b + 1)$

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9 $8r^2 + 3r = 7r^2 - 2$

10 $3x^2 - 16 = 8x$

Name : _____

Solving Quadratic Equations

Answers

1 $6x^2 - 18x - 18 = 6$

$(4, -1)$

2 $(3x - 2)(4x + 1) = 0$

$\left(\dfrac{2}{3}, -\dfrac{1}{4}\right)$

3 $3p^2 = -16p - 21$

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

4 $7q^2 - 38q - 24 = 0$

$\left(-\dfrac{4}{7}, 6\right)$

5 $3v^2 + 72 = 33v$

$(3, 8)$

6 $28w^2 = -96 - 184w$

$\left(-\dfrac{4}{7}, -6\right)$

7 $z^2 + 3z - 12 = 6$

$(3, -6)$

8 $(4b + 5)(b + 1)$

$\left(-\dfrac{5}{4}, -1\right)$

9 $8r^2 + 3r = 7r^2 - 2$

$(-2, -1)$

10 $3x^2 - 16 = 8x$

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