Solving Quadratic Equations

Solve each quadratic equation by factoring.

1) $2k^2 - 11k + 5 = 0$	2) $5x^2 + 37x = -14$
3) $6p^2 + 12p + 5 = 0$	4) $4v^2 - 43v + 66 = 3$
5) $g(6g - 31) = 30$	6) $18n^2 + 19n - 12 = 0$
7) $32y^2 + 12y - 9 = 0$	8) $3u^2 - u - 2 = -2u$

Solving Quadratic Equations

Answer key

Solve each quadratic equation by factoring.

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1) $2k^2 - 11k + 5 = 0$

$k = \dfrac{1}{2}$ **and** $k = 5$

2) $5x^2 + 37x = -14$

$x = -7$ **and** $x = -\dfrac{2}{5}$

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3) $6p^2 + 12p + 5 = 0$

$p = -\dfrac{5}{3}$ **and** $p = -\dfrac{1}{3}$

4) $4v^2 - 43v + 66 = 3$

$v = 9$ **and** $v = \dfrac{7}{4}$

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5) $g(6g - 31) = 30$

$g = 6$ **and** $g = -\dfrac{5}{6}$

6) $18n^2 + 19n - 12 = 0$

$n = -\dfrac{3}{2}$ **and** $n = \dfrac{4}{9}$

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7) $32y^2 + 12y - 9 = 0$

$y = -\dfrac{3}{4}$ **and** $y = \dfrac{3}{8}$

8) $3u^2 - u - 2 = -2u$

$u = \dfrac{2}{3}$ **and** $u = -1$