

Factoring and Solving Quadratics Test Prep

Factor each completely.

1) $7k^2 + 33k - 10$

2) $7p^2 + 37p + 10$

Solve each equation by factoring.

3) $5x^2 + 28x + 15 = 0$

4) $2x^2 + 5x - 42 = 0$

5) $5p^2 - 26p + 5 = 0$

6) $7a^2 + 52a + 21 = 0$

7) $x^2 - 15x = -56$

8) $b^2 - 42 = -b$

9) $7n^2 + 39n - 14 = -8n$

10) $3x^2 + 29x = -40$

11) $3n^2 - 45 = 10n + 3$

12) $3x^2 + 10x - 15 = -7$

Answers to Factoring and Solving Quadratics Test Prep (ID: 1)

1) $(7k - 2)(k + 5)$

2) $(7p + 2)(p + 5)$

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

4) $\left\{\frac{7}{2}, -6\right\}$

5) $\left\{\frac{1}{5}, 5\right\}$

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

7) $\{8, 7\}$

8) $\{-7, 6\}$

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

10) $\left\{-\frac{5}{3}, -8\right\}$

11) $\left\{-\frac{8}{3}, 6\right\}$

12) $\left\{\frac{2}{3}, -4\right\}$