

Math 2 Practice Quiz 4.3

Period _____

Solve each equation with the quadratic formula.

1) $5b^2 - 45 = 0$

2) $2p^2 + 10p - 3 = -11$

3) $-2p^2 = 9p - 11$

4) $5x^2 + x - 21 = 9x + x^2$

5) $-7a^2 - 11a + 23 = 0$

6) $-11m^2 - 8m + 30 = 12$

7) $-5r^2 + r = -3$

8) $12p^2 - 9p - 5 = p + 10$

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Solve each equation with the quadratic formula.

1) $5b^2 - 45 = 0$

$\{3, -3\}$

2) $2p^2 + 10p - 3 = -11$

$\{-1, -4\}$

3) $-2p^2 = 9p - 11$

$\left\{-\frac{11}{2}, 1\right\}$

4) $5x^2 + x - 21 = 9x + x^2$

$\left\{\frac{7}{2}, -\frac{3}{2}\right\}$

5) $-7a^2 - 11a + 23 = 0$

$\left\{\frac{-11 - 3\sqrt{85}}{14}, \frac{-11 + 3\sqrt{85}}{14}\right\}$

6) $-11m^2 - 8m + 30 = 12$

$\left\{\frac{-4 - \sqrt{214}}{11}, \frac{-4 + \sqrt{214}}{11}\right\}$

7) $-5r^2 + r = -3$

$\left\{\frac{1 - \sqrt{61}}{10}, \frac{1 + \sqrt{61}}{10}\right\}$

8) $12p^2 - 9p - 5 = p + 10$

$\left\{\frac{5 + \sqrt{205}}{12}, \frac{5 - \sqrt{205}}{12}\right\}$