

Practice Quiz 2.7 Solve Equations by Factoring

Period _____

Solve each equation by factoring.

1) $r^2 + r - 56 = 0$

2) $r^2 - 10r + 24 = 0$

3) $5b^2 + 30b - 80 = 0$

4) $4x^2 + 36x + 56 = 0$

5) $5v^2 + 10v + 12 = 7$

6) $8b^2 - 56b + 91 = -5$

7) $r^2 - 29 + 4r = 4r + 7$

8) $x^2 + x + 7 = 7$

9) $21p^2 + 22p = 8$

10) $8x^2 + 29x + 18 = 3$

11) $3x^2 = 56 + 13x$

12) $3x^2 - 4x = 0$

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1) $r^2 + r - 56 = 0$

 $\{-8, 7\}$

2) $r^2 - 10r + 24 = 0$

 $\{6, 4\}$

3) $5b^2 + 30b - 80 = 0$

 $\{-8, 2\}$

4) $4x^2 + 36x + 56 = 0$

 $\{-2, -7\}$

5) $5v^2 + 10v + 12 = 7$

 $\{-1\}$

6) $8b^2 - 56b + 91 = -5$

 $\{4, 3\}$

7) $r^2 - 29 + 4r = 4r + 7$

 $\{-6, 6\}$

8) $x^2 + x + 7 = 7$

 $\{-1, 0\}$

9) $21p^2 + 22p = 8$

 $\left\{-\frac{4}{3}, \frac{2}{7}\right\}$

10) $8x^2 + 29x + 18 = 3$

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

11) $3x^2 = 56 + 13x$

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

12) $3x^2 - 4x = 0$

 $\left\{\frac{4}{3}, 0\right\}$