8.2 Solving Quadratics Review

Date_____

Solve each equation by factoring.

1) $v^2 - 14v + 48 = 0$

2) $n^2 - 5n - 24 = 0$

3) $a^2 + 2a - 35 = 0$

4) $b^2 + 4b = 21$

5) $0 = -b^2 - 6b$

6) $p^2 - 7p = -12$

7) $p^2 = 7p$

8) $-8n = -7 - n^2$

9) $k^2 - 2k = 3$

10) $-9 = -b^2$

11) $-4x^2 + 10x + 4 = -5x^2 + 8x + 7$

12) $-5 + 3x = -x^2 + 7x$

13) $11x^2 - 45x = -168 + 8x^2$

14) $7x^2 + 77x + 147 = 7x$

15) $8 + 16x = -8x^2$

16) $(7m - 5)(m + 4) = 0$

17) $(5p + 8)(3p - 2) = 0$

18) $8(p - 4)(p + 3) = 0$

19) Write the quadratic equation with zeros of -3 and 4.

20) Write the quadratic equation with zeros of -12 and -5.

Solve each equation. Remember to check for extraneous solutions.

21) $\frac{x - 1}{4} + \frac{x + 2}{4x} = \frac{3}{4x}$

22) $\frac{x + 2}{2} = \frac{1}{x + 3}$

23) $\frac{5x + 2}{8} = \frac{4}{5x - 2}$

24) $\frac{2}{5} = \frac{r - 2}{5} + \frac{3r - 2}{5r}$

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1) $v^2 - 14v + 48 = 0$

$\{6, 8\}$

2) $n^2 - 5n - 24 = 0$

$\{-3, 8\}$

3) $a^2 + 2a - 35 = 0$

$\{-7, 5\}$

4) $b^2 + 4b = 21$

$\{-7, 3\}$

5) $0 = -b^2 - 6b$

$\{-6, 0\}$

6) $p^2 - 7p = -12$

$\{3, 4\}$

7) $p^2 = 7p$

$\{7, 0\}$

8) $-8n = -7 - n^2$

$\{1, 7\}$

9) $k^2 - 2k = 3$

$\{3, -1\}$

10) $-9 = -b^2$

$\{3, -3\}$

11) $-4x^2 + 10x + 4 = -5x^2 + 8x + 7$

$\{-3, 1\}$

12) $-5 + 3x = -x^2 + 7x$

$\{-1, 5\}$

13) $11x^2 - 45x = -168 + 8x^2$

$\{8, 7\}$

14) $7x^2 + 77x + 147 = 7x$

$\{-3, -7\}$

15) $8 + 16x = -8x^2$

$\{-1\}$

16) $(7m - 5)(m + 4) = 0$

$\left\{\frac{5}{7}, -4\right\}$

17) $(5p + 8)(3p - 2) = 0$

$\left\{-\frac{8}{5}, \frac{2}{3}\right\}$

18) $8(p - 4)(p + 3) = 0$

$\{4, -3\}$

19) Write the quadratic equation with zeros of -3 and 4.

20) Write the quadratic equation with zeros of -12 and -5.

Solve each equation. Remember to check for extraneous solutions.

21) $\frac{x - 1}{4} + \frac{x + 2}{4x} = \frac{3}{4x}$

$\{1, -1\}$

22) $\frac{x + 2}{2} = \frac{1}{x + 3}$

$\{-1, -4\}$

23) $\frac{5x + 2}{8} = \frac{4}{5x - 2}$

$\{\frac{6}{5}, -\frac{6}{5}\}$

24) $\frac{2}{5} = \frac{r - 2}{5} + \frac{3r - 2}{5r}$

$\{2, -1\}$