 Name_____

Solving Quadratic Equations by Factoring

Date_____ Period____

Solve each equation by factoring.

1) $(k+1)(k-5)=0$

2) $(a+1)(a+2)=0$

3) $(4k+5)(k+1)=0$

4) $(2m+3)(4m+3)=0$

5) $x^2-11x+19=-5$

6) $n^2+7n+15=5$

7) $n^2-10n+22=-2$

8) $n^2+3n-12=6$

9) $6n^2-18n-18=6$

10) $7r^2-14r=-7$

11) $n^2 + 8n = -15$

12) $5r^2 - 44r + 120 = -30 + 11r$

13) $-4k^2 - 8k - 3 = -3 - 5k^2$

14) $b^2 + 5b - 35 = 3b$

15) $3r^2 - 16r - 7 = 5$

16) $6b^2 - 13b + 3 = -3$

17) $7k^2 - 6k + 3 = 3$

18) $35k^2 - 22k + 7 = 4$

19) $7x^2 + 2x = 0$

20) $10b^2 = 27b - 18$

21) $8x^2 + 21 = -59x$

22) $15a^2 - 3a = 3 - 7a$

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Solve each equation by factoring.

1) $(k+1)(k-5)=0$

$\{-1, 5\}$

2) $(a+1)(a+2)=0$

$\{-1, -2\}$

3) $(4k+5)(k+1)=0$

$\left\{-\frac{5}{4}, -1\right\}$

4) $(2m+3)(4m+3)=0$

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

5) $x^2-11x+19=-5$

$\{3, 8\}$

6) $n^2+7n+15=5$

$\{-5, -2\}$

7) $n^2-10n+22=-2$

$\{6, 4\}$

8) $n^2+3n-12=6$

$\{3, -6\}$

9) $6n^2-18n-18=6$

$\{4, -1\}$

10) $7r^2-14r=-7$

$\{1\}$

11) $n^2 + 8n = -15$

$\{-5, -3\}$

12) $5r^2 - 44r + 120 = -30 + 11r$

$\{6, 5\}$

13) $-4k^2 - 8k - 3 = -3 - 5k^2$

$\{8, 0\}$

14) $b^2 + 5b - 35 = 3b$

$\{-7, 5\}$

15) $3r^2 - 16r - 7 = 5$

$\left\{-\frac{2}{3}, 6\right\}$

16) $6b^2 - 13b + 3 = -3$

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

17) $7k^2 - 6k + 3 = 3$

$\left\{\frac{6}{7}, 0\right\}$

18) $35k^2 - 22k + 7 = 4$

$\left\{\frac{1}{5}, \frac{3}{7}\right\}$

19) $7x^2 + 2x = 0$

$\left\{-\frac{2}{7}, 0\right\}$

20) $10b^2 = 27b - 18$

$\left\{\frac{6}{5}, \frac{3}{2}\right\}$

21) $8x^2 + 21 = -59x$

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

22) $15a^2 - 3a = 3 - 7a$ $\left\{\frac{1}{3}, -\frac{3}{5}\right\}$