Geometry Name_____

Review: Solving Quadratics by Factoring

Date_____ Period____

Solve each equation by factoring.

1) $r^2 = 3r + 18$

2) $k^2 = -5k + 6$

3) $x^2 = -3x + 4$

4) $n^2 + 16 = -8n$

5) $m^2 + 5 = 6m$

6) $p^2 = 25$

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

8) $6b^2 + 1 = -5b$

9) $2v^2 + v = 6$

10) $2n^2 = 3 - 5n$

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

12) $2n^2 + 9 = 9n$

13) $k^2 + k - 17 = 3$

14) $m^2 - 4m = -m$

15) $x^2 - 17 = -2 + 2x$

16) $x^2 - 5x + 4 = -2$

17) $n^2 + 1 = 6n - 4$

18) $-2a^2 - 4a = -5a - 3a^2 + 2$

Geometry Name_____

Review: Solving Quadratics by Factoring

Date_____ Period____

Solve each equation by factoring.

1) $r^2 = 3r + 18$

$\{-3, 6\}$

2) $k^2 = -5k + 6$

$\{1, -6\}$

3) $x^2 = -3x + 4$

$\{1, -4\}$

4) $n^2 + 16 = -8n$

$\{-4\}$

5) $m^2 + 5 = 6m$

$\{1, 5\}$

6) $p^2 = 25$

$\{5, -5\}$

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

$\left\{-\frac{1}{3}, -3\right\}$

8) $6b^2 + 1 = -5b$

$\left\{-\frac{1}{2}, -\frac{1}{3}\right\}$

9) $2v^2 + v = 6$

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

10) $2n^2 = 3 - 5n$

$\left\{\frac{1}{2}, -3\right\}$

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

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

12) $2n^2 + 9 = 9n$

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

13) $k^2 + k - 17 = 3$

$\{-5, 4\}$

14) $m^2 - 4m = -m$

$\{3, 0\}$

15) $x^2 - 17 = -2 + 2x$

$\{5, -3\}$

16) $x^2 - 5x + 4 = -2$

$\{3, 2\}$

17) $n^2 + 1 = 6n - 4$

$\{1, 5\}$

18) $-2a^2 - 4a = -5a - 3a^2 + 2$

$\{-2, 1\}$