8.2 Solving Non-Standard Quadratics WS 2

Date_____

Solve each equation by factoring.

1) $x^2 - 5x = 24$

2) $n^2 = 5n - 6$

3) $n^2 = 25$

4) $b^2 = -36 - 12b$

5) $v^2 = 16$

6) $n^2 = 2n$

7) $0 = -7x^2 - 196 + 77x$

8) $5v^2 + 75 = 40v$

9) $-54 = -6n^2$

10) $5k^2 + 25k = 0$

11) $8r^2 + 196 = r^2 + 77r$

12) $2n^2 + 11n + 3 = 3 + 7n$

13) $11n = n - 5n^2$

14) $2n^2 - 50 + 7n = 7n$

15) $8p^2 - 35p = p^2$

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

17) $5x^2 - 35x - 44 = -4$

18) $5b^2 + 55b + 146 = 6$

19) $5k^2 = 56 + 3k^2 + 6k$

20) $10k^2 - 26k + 28 = 3k^2 + 2k + 7$

8.2 Solving Non-Standard Quadratics WS 2

Date_____

Solve each equation by factoring.

1) $x^2 - 5x = 24$

$\{8, -3\}$

2) $n^2 = 5n - 6$

$\{3, 2\}$

3) $n^2 = 25$

$\{5, -5\}$

4) $b^2 = -36 - 12b$

$\{-6\}$

5) $v^2 = 16$

$\{4, -4\}$

6) $n^2 = 2n$

$\{2, 0\}$

7) $0 = -7x^2 - 196 + 77x$

$\{7, 4\}$

8) $5v^2 + 75 = 40v$

$\{5, 3\}$

9) $-54 = -6n^2$

$\{-3, 3\}$

10) $5k^2 + 25k = 0$

$\{-5, 0\}$

11) $8r^2 + 196 = r^2 + 77r$

$\{4, 7\}$

12) $2n^2 + 11n + 3 = 3 + 7n$

$\{-2, 0\}$

13) $11n = n - 5n^2$

$\{-2, 0\}$

14) $2n^2 - 50 + 7n = 7n$

$\{5, -5\}$

15) $8p^2 - 35p = p^2$

$\{5, 0\}$

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

$\{-1, 0\}$

17) $5x^2 - 35x - 44 = -4$

$\{8, -1\}$

18) $5b^2 + 55b + 146 = 6$

$\{-4, -7\}$

19) $5k^2 = 56 + 3k^2 + 6k$

$\{-4, 7\}$

20) $10k^2 - 26k + 28 = 3k^2 + 2k + 7$

$\{1, 3\}$