Algebra 2   Name_____

Assignment

Date_____ Period_____

Solve each equation by factoring.

1) $3n^2 - 9n - 84 = 0$

2) $b^2 - 64 = 0$

3) $x^2 - 7x + 6 = 0$

4) $2x^2 - 12x + 5 = -5$

5) $8x^2 + 80x + 133 = 5$

6) $v^2 + 12v + 24 = -8$

7) $a^2 = 16 - 6a$

8) $6p^2 + 18p = 60$

9) $k^2 = 7k - 10$

10) $7n^2 + 29n = 35 + n$

11) $8x^2 - 40x - 2 = -2$

12) $m^2 - 16 + 6m = 6m$

13) $3x^2 - 5x = 0$

14) $15r^2 + 58r + 48 = 0$

15) $10n^2 - 7n + 1 = 0$

16) $3x^2 - 20x - 2 = 5$

17) $3v^2 - 14v + 11 = 3$

18) $15b^2 + 40b + 14 = -6$

Answers to Assignment (ID: 1)

1) $\{-4, 7\}$

2) $\{-8, 8\}$

3) $\{1, 6\}$

4) $\{5, 1\}$

5) $\{-8, -2\}$

6) $\{-4, -8\}$

7) $\{-8, 2\}$

8) $\{-5, 2\}$

9) $\{5, 2\}$

10) $\{1, -5\}$

11) $\{5, 0\}$

12) $\{-4, 4\}$

13) $\left\{\dfrac{5}{3}, 0\right\}$

14) $\left\{-\dfrac{6}{5}, -\dfrac{8}{3}\right\}$

15) $\left\{\dfrac{1}{2}, \dfrac{1}{5}\right\}$

16) $\left\{-\dfrac{1}{3}, 7\right\}$

17) $\left\{\dfrac{2}{3}, 4\right\}$

18) $\left\{-\dfrac{2}{3}, -2\right\}$