

Assignment

Date _____ Period _____

Solve each equation by factoring.

1) $(b - 8)(7b + 5) = 0$

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

3) $a^2 + 10a + 21 = 0$

4) $a^2 + 6a + 9 = 0$

5) $7p^2 - 21p - 28 = 0$

6) $n^2 + 9n + 14 = 0$

7) $4v^2 + 24v - 28 = 0$

8) $5x^2 - 10x - 175 = 0$

9) $n^2 - n - 1 = 5$

10) $p^2 - 4p - 10 = -5$

11) $3p^2 + 17p + 24 = 0$

12) $5n^2 + 26n + 5 = 0$

13) $3x^2 - 7x - 3 = -5$

14) $8b^2 - 25b = -3$

Answers to Assignment (ID: 1)

$$1) \left\{ 8, -\frac{5}{7} \right\}$$

$$5) \{-1, 4\}$$

$$9) \{-2, 3\}$$

$$13) \left\{ \frac{1}{3}, 2 \right\}$$

$$2) \{-1, 0\}$$

$$6) \{-7, -2\}$$

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

$$14) \left\{ \frac{1}{8}, 3 \right\}$$

$$3) \{-3, -7\}$$

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

$$11) \left\{ -\frac{8}{3}, -3 \right\}$$

$$4) \{-3\}$$

$$8) \{-5, 7\}$$

$$12) \left\{ -\frac{1}{5}, -5 \right\}$$