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Solve each equation by factoring.

1)
$$n^2 - 6n - 7 = 0$$

$$2) 8v^2 - 36v + 16 = 0$$

$$3) \ 3b^2 + 13b + 4 = 0$$

4)
$$8x^2 - 32x + 22 = -2$$

5)
$$3n^2 - 8n - 27 = 8$$

6)
$$a^2 + 12a = -36$$

7)
$$5k^2 = 4 + k$$

8)
$$5x^2 - 61x + 168 = 5x - x^2$$

9)
$$7x^2 = 105 - 14x$$

10)
$$4p^2 - 12p - 10 = -p^2 - 1$$

11)
$$28n^2 + 4n - 38 = -6 + 8n^2 - 8n$$

12)
$$14n^2 + 6n = 2 - 2n + 4n^2$$

Answers to Solving By Factoring

2)
$$\left\{\frac{1}{2}, 4\right\}$$

6) $\left\{-6\right\}$

3)
$$\left\{-\frac{1}{3}, -4\right\}$$

5)
$$\left\{-\frac{7}{3}, 5\right\}$$

9) $\left\{-5, 3\right\}$

$$7) \left\{-\frac{4}{5}, 1\right\}$$

$$10) \left\{-\frac{3}{5}, 3\right\}$$

$$11) \left\{-\frac{8}{5}, 1\right\}$$

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