

Solve By Factoring

Date _____ Period _____

Solve each equation by factoring.

1) $14x^2 - 24 = -5x$

2) $4n^2 = 28 - 9n$

3) $6b^2 + 7 = -23b$

4) $10v^2 = 74v + 48$

5) $3m^2 = -4 + 13m$

6) $3a^2 + 25 = 20a$

7) $5b^2 - 28 = -13b$

8) $12b^2 + 160 = -92b$

9) $p^2 - 3 = 2p$

10) $2a^2 + 26a = -80$

11) $x^2 + 9x = -14$

12) $n^2 - 7n = -10$

13) $n^2 + 2n = 0$

14) $a^2 - 1 = 0$

15) $m^2 + m = 0$

16) $n^2 - 64 = 0$

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Date _____ Period _____

Solve each equation by factoring.

1) $14x^2 - 24 = -5x$

$$\left\{ \frac{8}{7}, -\frac{3}{2} \right\}$$

2) $4n^2 = 28 - 9n$

$$\left\{ \frac{7}{4}, -4 \right\}$$

3) $6b^2 + 7 = -23b$

$$\left\{ -\frac{7}{2}, -\frac{1}{3} \right\}$$

4) $10v^2 = 74v + 48$

$$\left\{ -\frac{3}{5}, 8 \right\}$$

5) $3m^2 = -4 + 13m$

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

6) $3a^2 + 25 = 20a$

$$\left\{ \frac{5}{3}, 5 \right\}$$

7) $5b^2 - 28 = -13b$

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

8) $12b^2 + 160 = -92b$

$$\left\{ -\frac{8}{3}, -5 \right\}$$

9) $p^2 - 3 = 2p$

$$\{-1, 3\}$$

10) $2a^2 + 26a = -80$

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

11) $x^2 + 9x = -14$

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

12) $n^2 - 7n = -10$

$$\{5, 2\}$$

13) $n^2 + 2n = 0$

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

14) $a^2 - 1 = 0$

$$\{-1, 1\}$$

15) $m^2 + m = 0$

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

16) $n^2 - 64 = 0$

$$\{8, -8\}$$