Alg Name_____

10-2 Quadratic Equations - Solve by Factoring (ver3)_hw

Period____

Solve each equation by factoring.

1) $n^2 - 9 = 0$

2) $a^2 - 49 = 0$

3) $49n^2 - 4 = 0$

4) $9p^2 - 2 = 23$

5) $25n^2 - 1 = 0$

6) $16x^2 - 5 = -4$

7) $3x^2 - 2 = 10$

8) $5k^2 - 3 = 17$

9) $2p^2 + 5 = 55$

10) $4x^2 + 8 = 24$

11) $2x^2 - 3x + 1 = 0$

12) $3x^2 - 7x - 6 = 0$

13) $2v^2 + 3v - 2 = 0$

14) $4x^2 - 8x + 3 = 0$

15) $2n^2 + 7n + 6 = 3$

16) $2v^2 - v - 5 = -2$

17) $2n^2 + 3n + 4 = 3$

18) $2p^2 - 3p + 1 = 3$

19) $3x^2 = -2x$

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

21) $3v^2 = 13v - 4$

22) $3x^2 - 4 = -4x$

23) $4r^2 - 3 = -r$

24) $5x^2 = -17x - 6$

25) $6x^2 - 7x + 1 = -2x + 3 + 3x^2$

26) $2a^2 - 11a + 9 = -2a$

27) $2m^2 + 1 = 2 - m$

28) $2a^2 + 5a - 3 = -3 + 2a$

Answers to 10-2 Quadratic Equations - Solve by Factoring (ver3)_hw

1) $\{3, -3\}$
2) $\{-7, 7\}$
3) $\left\{\frac{2}{7}, -\frac{2}{7}\right\}$
4) $\left\{\frac{5}{3}, -\frac{5}{3}\right\}$
5) $\left\{\frac{1}{5}, -\frac{1}{5}\right\}$
6) $\left\{\frac{1}{4}, -\frac{1}{4}\right\}$
7) $\{2, -2\}$
8) $\{2, -2\}$
9) $\{5, -5\}$
10) $\{2, -2\}$
11) $\left\{\frac{1}{2}, 1\right\}$
12) $\left\{-\frac{2}{3}, 3\right\}$
13) $\left\{\frac{1}{2}, -2\right\}$
14) $\left\{\frac{3}{2}, \frac{1}{2}\right\}$
15) $\left\{-\frac{1}{2}, -3\right\}$
16) $\left\{\frac{3}{2}, -1\right\}$
17) $\left\{-\frac{1}{2}, -1\right\}$
18) $\left\{-\frac{1}{2}, 2\right\}$
19) $\left\{-\frac{2}{3}, 0\right\}$
20) $\left\{-\frac{3}{2}, 0\right\}$
21) $\left\{\frac{1}{3}, 4\right\}$
22) $\left\{\frac{2}{3}, -2\right\}$
23) $\left\{\frac{3}{4}, -1\right\}$
24) $\left\{-\frac{2}{5}, -3\right\}$
25) $\left\{-\frac{1}{3}, 2\right\}$
26) $\left\{\frac{3}{2}, 3\right\}$
27) $\left\{\frac{1}{2}, -1\right\}$
28) $\left\{\frac{3}{2}, 0\right\}$