Alg Name_____

10-2 Quadratic Equations - Solve by Factoring (ver1)_hw

Period____

Write each equation in STANDARD FORM and determine a, b, and c.

1) $n^2 - 14n + 48 = 0$

2) $p^2 + p - 42 = 0$

3) $3v^2 - 22v + 41 = 6$

4) $8v^2 - 21v - 4 = 5$

5) $5x^2 + 32x = 64$

6) $3x^2 = -4 - 13x$

7) $-9 = 18v - 7v^2$

8) $0 = 6p - 7p^2$

9) $5x^2 = -16$

10) $2n = 7n^2$ (mirror)

11) $41x = -30 - 7x^2$

12) $0 = -2r^2 - 5$

13) $-8 - 2n = -15n^2$

14) $5v^2 - 8 = 6v$

15) $0 = 11v + 21 - 2v^2$

16) $5 = -5x^2 - 26x$

17) $0 = 4r - 5r^2$

18) $0 = 16 + 22m - 3m^2$

19) $0 = 7k^2 + 62k + 48$

20) $2n^2 - 10 = -n$

21) $4n^2 = -5n - 4n^2 + 3$

22) $16r^2 - 51r + 50 = -6 + 6r^2$

23) $-2x^2 + 17x - 43 = -3 - 4x^2 + 6x$

24) $4b^2 + 41 = b^2 - 22b + 6$

Answers to 10-2 Quadratic Equations - Solve by Factoring (ver1)_hw

1) $a = 1$; $b = -14$; $c = 48$
2) $a = 1$; $b = 1$; $c = -42$
3) $a = 3$; $b = -22$; $c = 35$
4) $a = 8$; $b = -21$; $c = -9$
5) $a = 5$; $b = 32$; $c = -64$
6) $a = 3$; $b = 13$; $c = 4$
7) $a = 7$; $b = -18$; $c = -9$
8) $a = 7$; $b = -6$; $c = 0$
9) $a = 5$; $b = 0$; $c = 16$
10) $a = 7$; $b = -2$; $c = 0$
11) $a = 7$; $b = 41$; $c = 30$
12) $a = 2$; $b = 0$; $c = 5$
13) $a = 15$; $b = -2$; $c = -8$
14) $a = 5$; $b = -6$; $c = -8$
15) $a = 2$; $b = -11$; $c = -21$
16) $a = 5$; $b = 26$; $c = 5$
17) $a = 5$; $b = -4$; $c = 0$
18) $a = 3$; $b = -22$; $c = -16$
19) $a = 7$; $b = 62$; $c = 48$
20) $a = 2$; $b = 1$; $c = -10$
21) $a = 8$; $b = 5$; $c = -3$
22) $a = 10$; $b = -51$; $c = 56$
23) $a = 2$; $b = 11$; $c = -40$
24) $a = 3$; $b = 22$; $c = 35$