Secondary Math 2 Honors Name_____

4.2 Switching Forms

Date_____ Period____

Write each equation in intercept form.

1) $y = -2x^2 + 16x - 30$

2) $y = x^2 + 6x + 5$

3) $y = x^2 + 2x - 3$

4) $y = x^2 - 4x + 5$

5) $y = -(x - 2)^2 + 4$

6) $y = -2(x + 1)^2 - 4$

7) $y = -2(x - 4)^2 + 2$

8) $y = (x - 4)^2 - 4$

Write each equation in standard form.

9) $y = 3(x + 2)(x - 4)$

10) $y = -2(x + 7)(x - 1)$

11) $y = -x(x + 5)$

12) $y = 3(x + 2)(x + 6)$

13) $y = (x + 2)^2 - 1$

14) $y = 2(x + 1)^2 + 1$

15) $y = 2(x + 2)^2 - 3$

16) $y = -2(x + 3)^2 + 4$

Write each equation in vertex form.

17) $y = x^2 + 4x + 2$

18) $y = -2x^2 - 16x - 36$

19) $y = -x^2 - 8x - 17$

20) $y = \frac{1}{2}x^2 + 4x + 9$

21) $y = (x - 1)(x + 5)$

22) $y = 2(x + 6)(x - 3)$

23) $y = -(x - 2)(x - 8)$

24) $y = 2(x + 6)(x - 4)$