Name: _____ Date: _____

Assignment

1. Convert to Standard Form

$$y = ax^2 + bx + c$$

a. $y = 14x + x^2 - 5$ b. $y = 8 - 3x - x^2$ c. $y = x^2 - 5 + 3x$

d. $y = (x - 4)(2x + 1)$ e. $y = (3x + 1)(9x + 1)$ f. $y = (x + 5)(x + 2)$

g. $y = (x + 5)(2x - 1)$ h. $y = (x - 4)(x - 3)$ i. $y = (x - 6)(x + 7)$

j. $y = 3x(x - 6) + 11$ k. $y = x(2x + 5) - 8$ l. $y = 4(x + 6) + 4x^2$

m. $y = (x - 2)^2 + 2$ n. $y = (x + 4)^2 - 1$ o. $y = 2(x - 1)^2 + 1$

p. Convert to Factored Form

$$y = (x - m)(x - n)$$

a. $y = x^2 + 8x + 12$ b. $y = x^2 - 11x + 24$ c. $y = x^2 - 6x - 7$

d. $y = x^2 - 4x - 32$ e. $y = x^2 + 5x - 6$ f. $y = x^2 + x - 2$

g. $y = x^2 + 6x - 16$ h. $y = x^2 - 3x - 40$ i. $y = x^2 + 11x + 24$

j. $y = 5x^2 - 13x - 6$ k. $y = 6x^2 + 13x + 6$ l. $y = 3x^2 + 7x - 6$