Name: _____   Date: _____

Learning Goal 3.3	Convert standard form of the quadratic equation to vertex form by completing the square.

Assignment

Convert the following functions into vertex form of the equation.

a. $a(x) = x^2 - 8x + 10$

b. $b(x) = x^2 - 10x + 3$

c. $c(x) = x^2 + 12x + 15$

d. $d(x) = x^2 + 16x + 5$

e. $y = x^2 + 16x - 3$

f. $f(x) = x^2 + 10x + 3$

g. $g(x) = x^2 - 12x - 7$

h. $h(x) = x^2 + 4x + 15$

i. $y = x^2 - 6x + 11$

j. $j(x) = x^2 - 14x + 5$

k. $k(x) = x^2 + 11x + 10$

l. $y = x^2 - 3x + 12$

m. $m(x) = x^2 + 5x + 15$

n. $n(x) = x^2 - 7x - 5$

o. $y = x^2 + x + 9$

p. $p(x) = x^2 + 7x + 2$

q. $q(x) = x^2 - 5x + 1$

r. $r(x) = x^2 - 11x + 4$

s. $s(x) = x^2 + 9x - 6$

t. $t(x) = x^2 - 13x + 20$

Assignment   Handout   Quiz Next Day!