

## HW #3-4: Converting to Vertex Form

### Check for Understanding

*Can you complete these problems correctly by yourself*

- 1) Complete the square to convert the standard form quadratic function into vertex form. Then find the vertex and the x-intercepts.

a.  $f(x) = x^2 + 4x - 14$

b.  $f(x) = 2x^2 + 9x$

c.  $y = 5x^2 - 4x + 1$

d.  $f(x) = 2x^2 - 4x + 8$

e.  $y = -3x^2 - 12x - 13$