

Algebra II, Quiz 9.1-9.2

1) Express the quadratic function in standard form, and identify  $a$ ,  $b$ , and  $c$ .

a)  $f(x) = (x - 5)^2$

b)  $f(x) = (x + 3)(3x - 4)$

2) Express the quadratic function in factored form, and identify  $a$ ,  $r$ , and  $s$ .

a)  $f(x) = x^2 + 2x - 24$

b)  $f(x) = 9x^2 + 60x + 100$

3) Express the quadratic functions in vertex form, and identify  $a$ ,  $h$  and  $k$ .

a)  $f(x) = x^2 + 12x + 20$

b)  $f(x) = 8x^2 + 48x + 34$