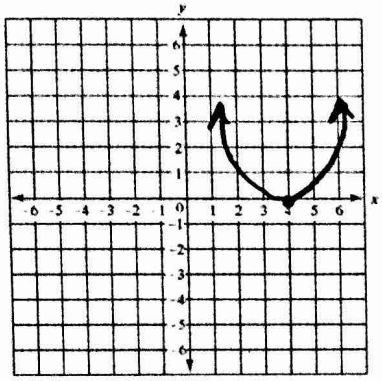
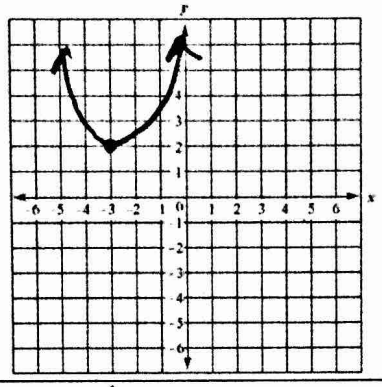
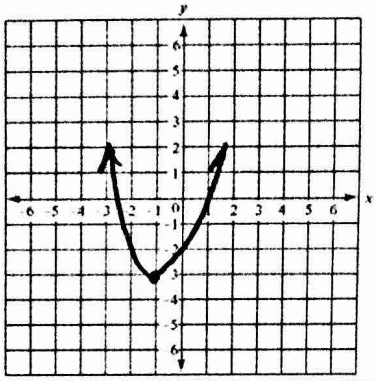
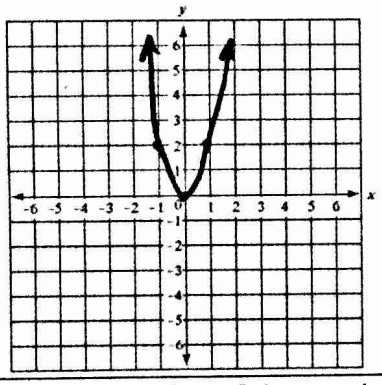
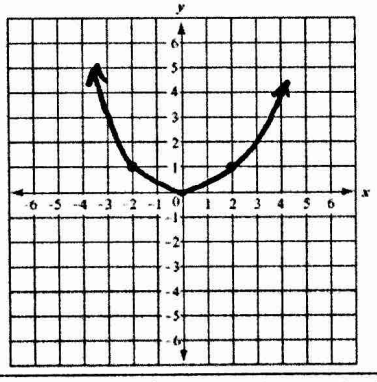
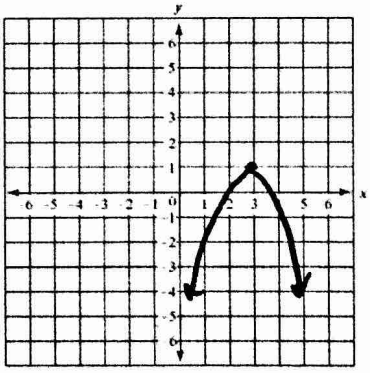
#13 Name_____ Period_____

Describe the transformation, then graph the following quadratics.

$d(x) = (x-4)^2$	$g(x)=(x+3)^2+2$	$h(x)=(x+1)^2-3$
R+ 4	left 3 up 2	left 1 down 3
		
$f(x)=2x^2$	$c(x)=\frac{1}{2}x^2$	$d(x)=-(x-3)^2+1$
Vert. Stretch by 2	Vert. Comp. of $\frac{1}{2}$	reflect x, r+ 3 up 1
		

Write the equation of the quadratic if the parent function is vertically stretched by a factor of 2 and translated 3 units to the right. $y = 2(x-3)^2$

Write the equation of the quadratic if the parent function is reflected across the x-axis and translated six units down. $y = -(x)^2 - 6$

Describe each transformation of the quadratic parent function.

$f(x)=-(x-4)^2$	$f(x)=8(x+2)^2$
reflect x, R+. 4	V.S by 8, left 2
$f(x)=4x^2$	$f(x)=(x-4)^2+3$
V.S by 4	R+. 4, up 3