

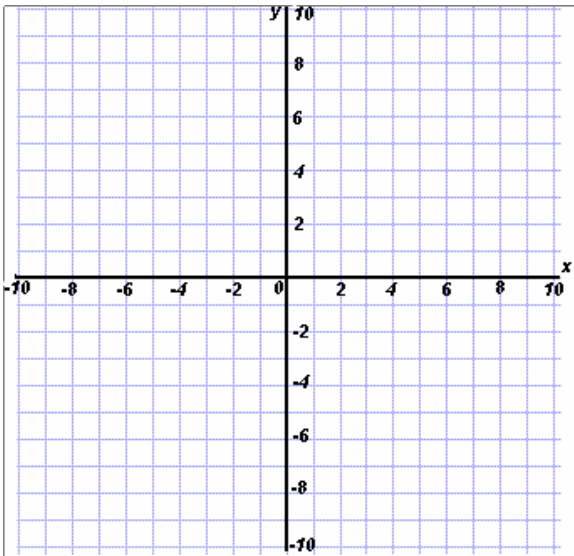
### 8.3 Quiz

Each row of the table below describes a single transformation of the parent function  $y = |x|$  or  $y = x^2$ . Complete the table.

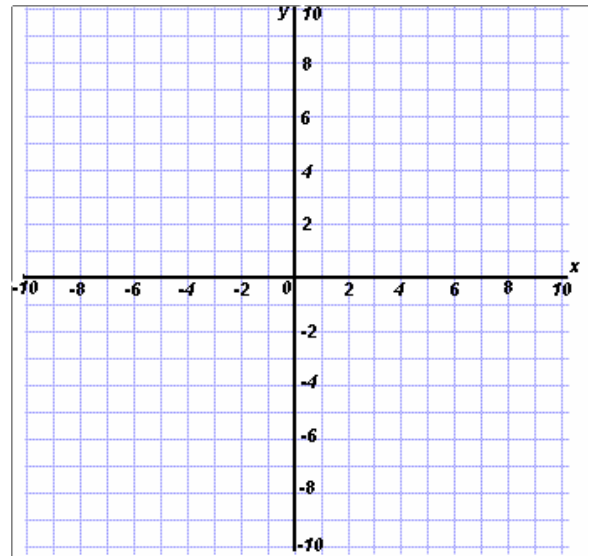
	Parent Function	Replacement(s)	New equation in $y =$ form	Describe the transformation
Ex.	$y =  x $	replace $x$ with $x + 5$	$y =  x + 5 $	Translation left 5 units
1)	$y =  x $			Translation down 2 units
2)	$y =  x $	replace $y$ with $y + 3$		
3)	$y =  x $		$y =  x - 1 $	
4)	$y =  x $	replace $y$ with $-y$		
5)	$y = x^2$			Translate up 3 <i>and</i> right 5 units
6)	$y = x^2$		$y = -x^2$	

Graph the following functions:

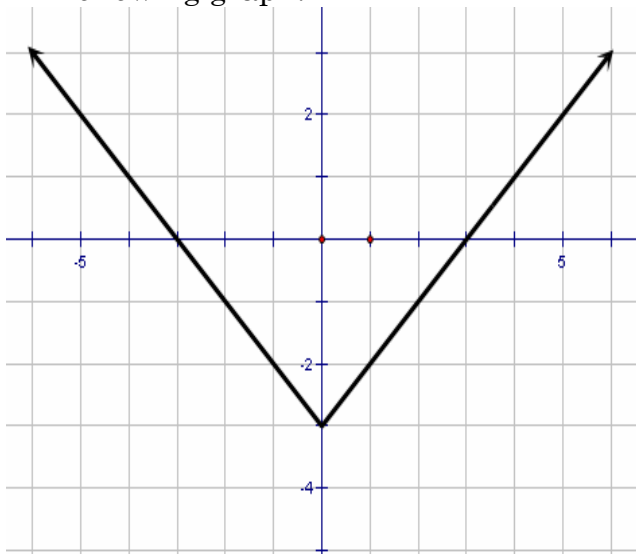
7)  $y = |x - 1|$



8)  $y = -x^2$



9) Write the equation that represents the following graph.



10) Write the equation that represents the following graph.

