

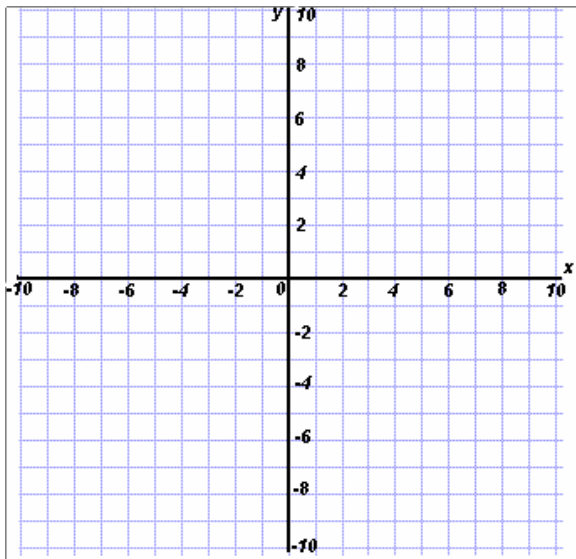
8.3 Quiz

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

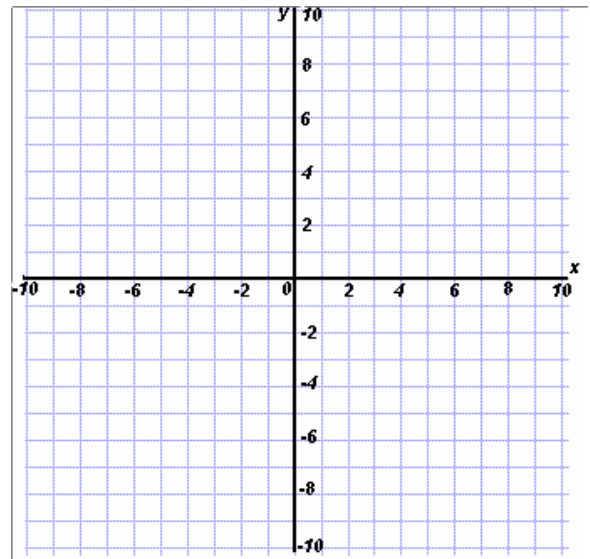
	Parent Function	Replacement(s)	New equation in $y =$ form	Describe the transformation
Ex.	$y = x $	replace x with $x + 5$	$y = x + 5 $	Translation left 5 units
1)	$y = x $	replace y with $y + 3$		
2)	$y = x $	replace y with $-y$		
3)	$y = x $		$y = x - 6$	
4)	$y = x^2$		$y = -x^2$	
5)	$y = x^2$			Reflection over the y -axis
6)	$y = x^2$			Translate left 5 units and reflect over the x -axis

Graph the following functions:

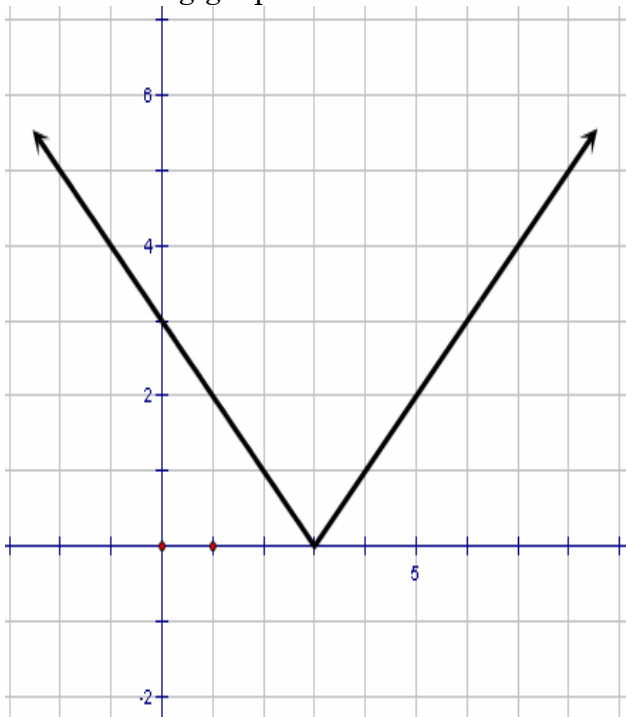
7) $y = |x| + 1$



8) $y = (x - 4)^2$



9) Write the equation that represents the following graph.



10) Write the equation that represents the following graph.

