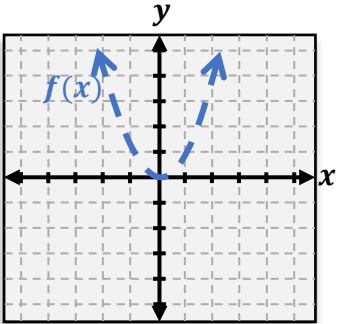
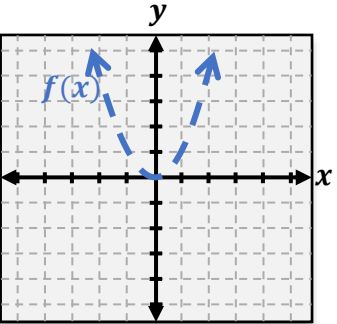
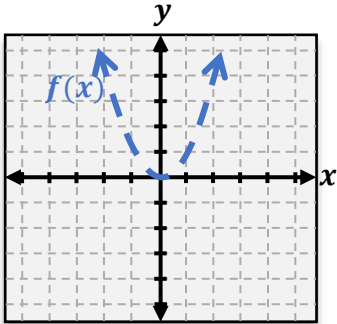


Intro to Transformations

- Transformations occur when a function is _____ and changes position and/or shape.

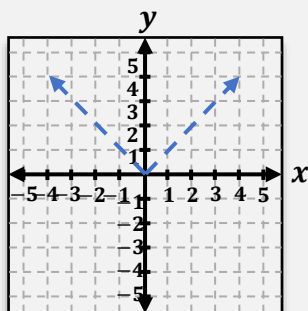
Transformations of Functions		
1) Reflection (FOLDING a function)	2) Shift (MOVING a function)	3) Stretch (SQUEEZING a function)
 $-f(x)$	 $f(x-h) + k$	 $c \cdot f(x)$

EXAMPLE: The graph of the $f(x) = |x|$ is shown below. Match the following functions $p(x)$, $q(x)$, & $r(x)$ to their corresponding graphs.

(A) $p(x) = |x - 3| + 2$

(B) $q(x) = -|x|$

(C) $r(x) = -4|x|$



Reflection	Shift	Stretch
$-f(x)$	$f(x-h) + k$	$c \cdot f(x)$

