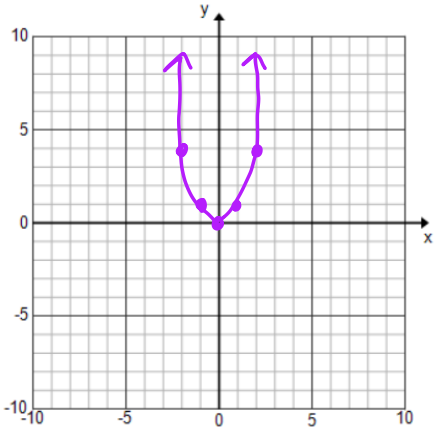
NAME:

UNIT 8 DAY 3

Key

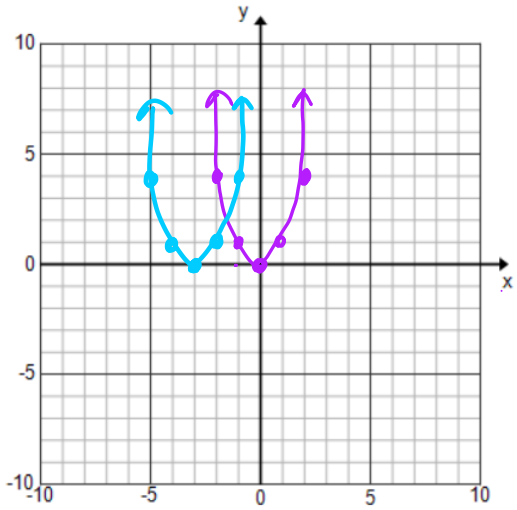
BACK TO THE BASICS – RECAP OF GRAPHING QUADRATICS

Graph the Parent Function ($y = x^2$)

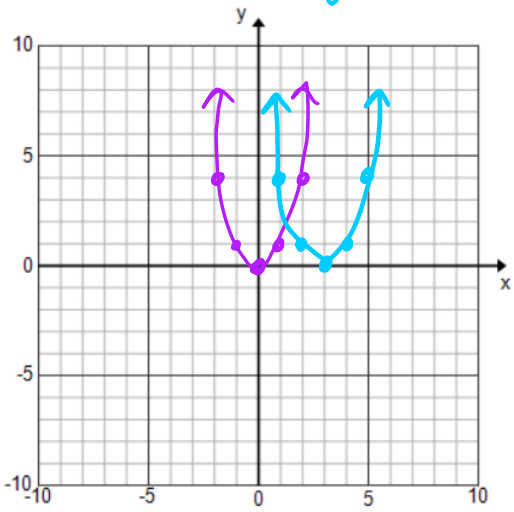


First, describe the transformation. Then graph it.

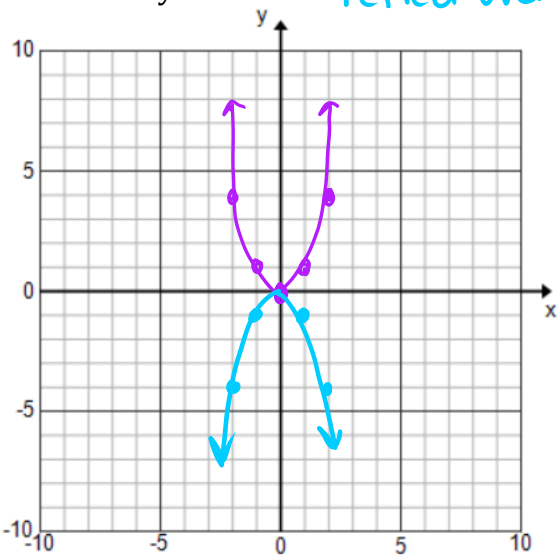
$y = (x + 3)^2$ Left 3



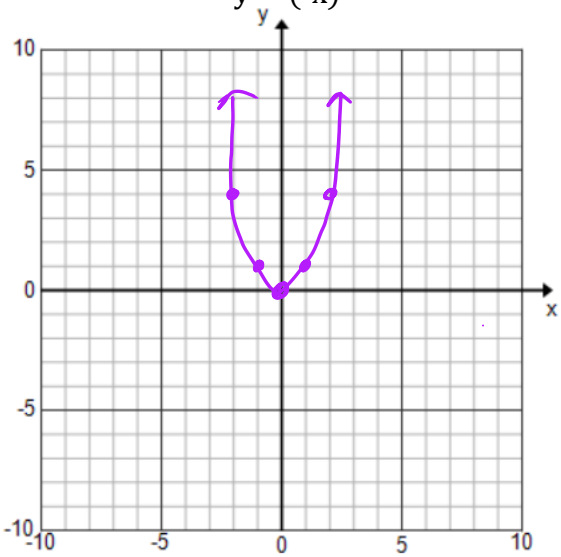
$y = (x - 3)^2$ Right 3



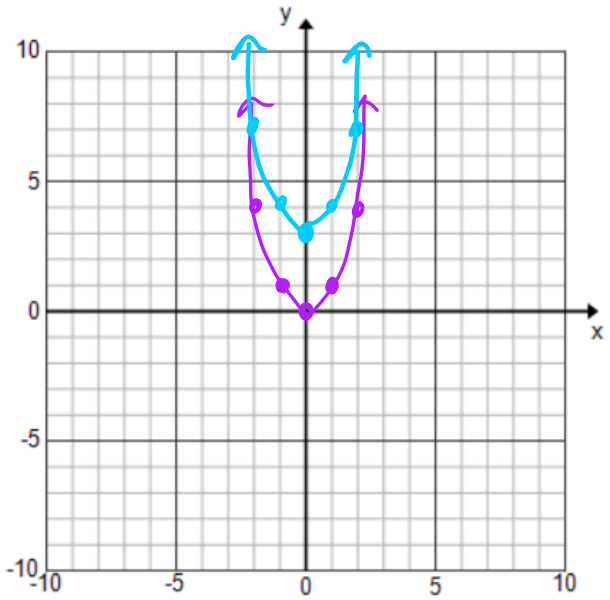
$y = -x^2$ reflect over x-axis



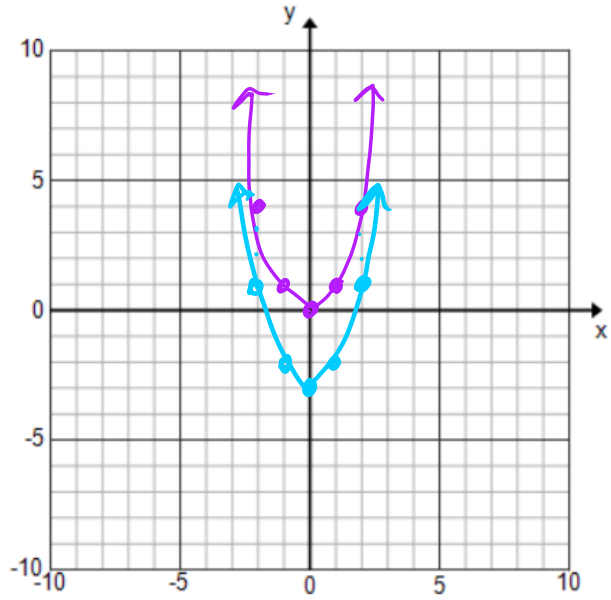
$y = (-x)^2$



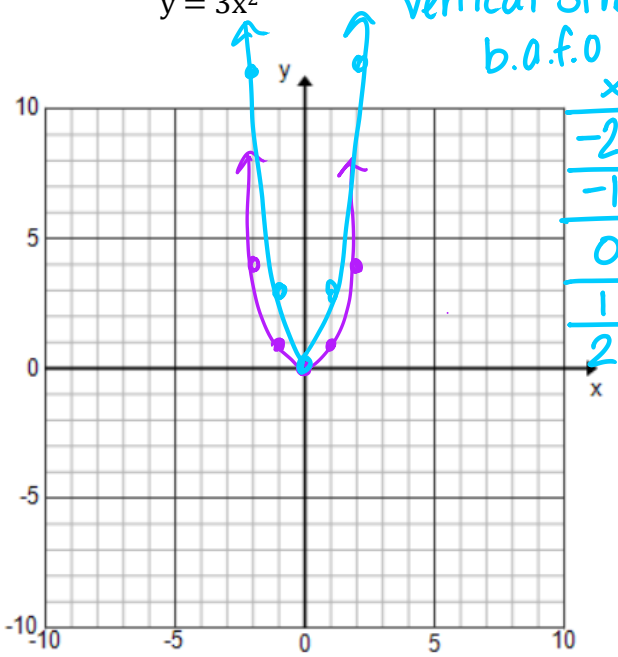
$y = x^2 + 3$ up 3



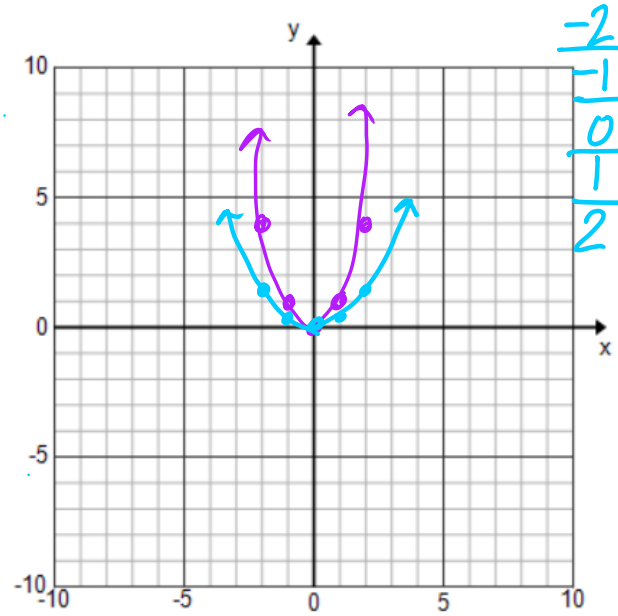
$y = x^2 - 3$ down 3



$y = 3x^2$ vertical stretch b.o.f.o 3



x	y
-2	12
-1	3
0	0
1	3
2	12

$y = 1/3x^2$ vertical shrink

x	y
-2	1.3
-1	0.3
0	0
1	0.3
2	1.3