Table 'em, Graph 'em

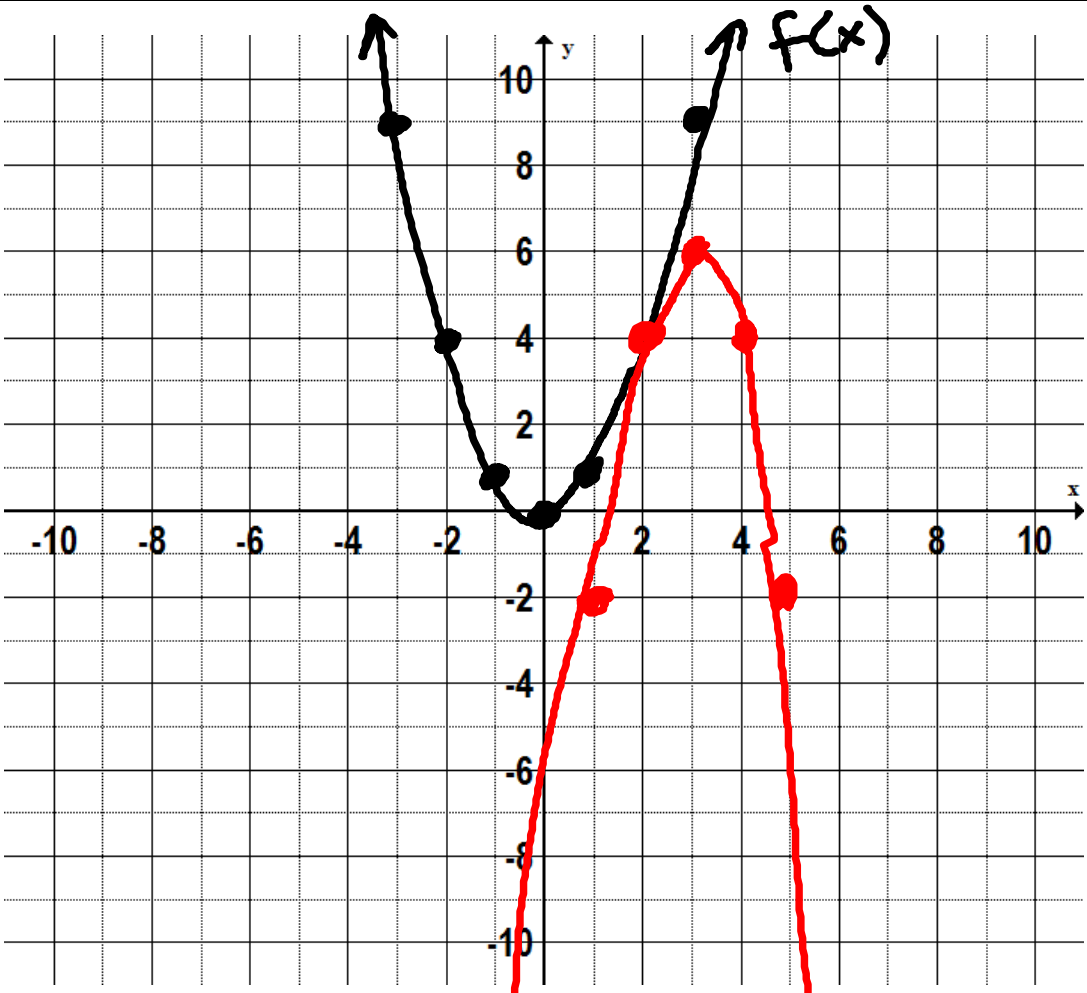
$f(x) = x^2$		$g(x) = -2(x-3)^2 + 6$	
x	y	x	y
-3	9	0	-12
-2	4	1	-2
-1	1	2	4
0	0	3	6
1	1	4	4
2	4	5	-2
3	9	6	-12

vertex

vertex

x+3

-2y+6



Describe the operations you need to apply to the x- and y-value of a point on f(x) to get to the corresponding point of g(x).

x: add 3

y: multiply by -2, add 6

add 3 to the x-values. multiply the y-values by -2 then add 6.