

1. Sketch the function $f(x) = x^2$ plotting these points with values of x :

x	$y = x^2$
-3	
-2	
-1	
0	
1	
2	
3	

2. Sketch the following functions approximately using transformations of the graph above.

a. $y = (x - 2)^2$

b. $y = x^2 - 4$

c. $y = 2x^2$

c. $y = -(x - 2)^2$

Function Inverses

1. $f(x) = 3x$ $f^{-1}(x) =$

2. $f(x) = x + 19$ $f^{-1}(x) =$

3. $f(x) = \frac{2}{3}x + 5x$ $f^{-1}(x) =$

4. $f(x) = 5x - 2$ $f^{-1}(x) =$

5. $g(x) = x^3 + 2$ $g^{-1}(x) =$