


# Calculus Equations and Answers



**Calculus Equations & Answers**

**Inverse Functions**

Questions on inverse functions are presented along with detailed solutions and explanations. The questions below will help you develop the computational skills needed in solving questions about inverse functions and also gain deep understanding of the concept of inverse functions.

**Question 1:**  
Find the parameters  $a$  and  $b$  included in the linear function  $f(x) = ax + b$  so that  $f^{-1}(2) = 3$  and  $f^{-1}(-3) = 6$ , where  $f^{-1}(x)$  is the inverse of function  $f$ .

**Solution to Question 1:**  
From the properties of inverse functions if  $f^{-1}(2) = 3$  and  $f^{-1}(-3) = 6$ , then  
 $f(3) = 2$  and  $f(6) = -3$   
Use the above to write  
 $f(3) = 3a + b = 2$  and  $f(6) = 6a + b = -3$   
Solve the 2 by 2 system of equations  $3a + b = 2$  and  $6a + b = -3$  to obtain  
 $a = -5/3$  and  $b = 7$

**Question 2:**  
Given  $f(x) = x^3 + 2x$ , complete the table of values given below and find  $f^{-1}(3)$  and  $f^{-1}(-12)$ .

$x$	$f(x)$
0	0
1	3
2	12

**Solution to Question 2:**  
Since  $f(1) = 3$ , from the properties of the inverse functions, we have  
 $f^{-1}(3) = 1$   
 $f$  is odd function and therefore  $f(-2) = -f(2) = -12$ . Hence  
 $f^{-1}(-12) = -2$

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(Roosevelt O'Keefe)

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