

Calculus Equations and Answers

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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 $f(x) = x^2 + 2x$, complete the table of values given below and find $f^{-1}(0)$ 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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Most of these pdf is the perfect ebook available. It is actually rally intriguing through reading period. I am pleased to explain how this is actually the greatest ebook we have read within my personal life and might be the finest publication for actually.

(Prof. Dario Lang)

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