

Suppose f is a differentiable and 1-1 function. Let f^{-1} be its inverse. Given the following table, find $[f^{-1}]'(3)$

x	$f(x)$	$f'(x)$
-1	3	-2
0	2	0
1	-2	2

Show ALL your work, give an exact answer and put a box around your final result for the grader.