

$f(x)$ is an odd function. its derivative at $x=0$ is 3 then the derivative of its inverse at 0 is $1/3$. Is this true or false?

Let $f(x)$ be a real-valued function of a real variable. Then f is **odd** if the following equation holds for all x in the domain of f .

$$-f(x) = f(-x),$$

or

$$f(x) + f(-x) = 0.$$

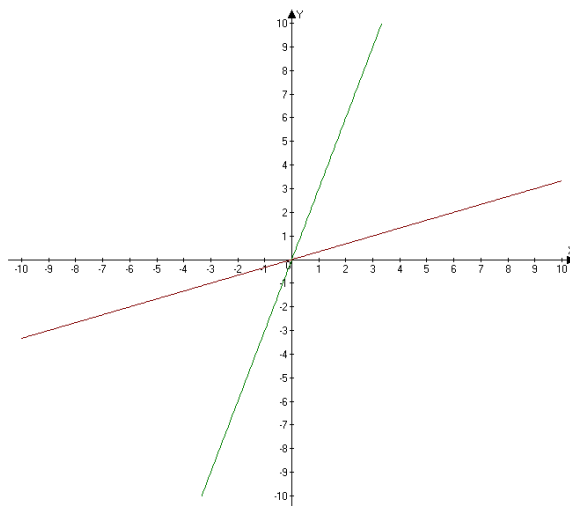
Find the function:

$$\text{If } f'(x) = 3, f(x) = 3x + C$$

The function is odd, that is why the final equation is $f(x) = 3x$.

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

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



It is true.