Derivative of the inverse of a function fex at a point (a, b). Case 1: Given f(x), (a,b), find $(f^{-1})'(a)$ Rocedure: Note that $b=f(a) \Rightarrow f^{-1}(b)=a$. $f'(f^{-1})'(a) = \frac{1}{f'(f^{-1}(a))} f'(b)$ Case 2: Coven $f^{-1}(x)$, (a,b), provide f'(b)Note $f^{-1}(a) = b$ $f'(f^{-1})'(a) = f'(f^{-1}(a)) = f'(b)$ As required.