2.2求导法则

2017年10月16日 7:50

4.
$$f(x) = \begin{cases} x & x < 0 \\ f(x) & x > 0 \end{cases}$$
 $f(x)$.

(2)
$$\chi = 0$$
:

$$f'(0) = \frac{1}{x + 0} = \frac{f(x) - f(0)}{x + 0} = \frac{x - 0}{x - 0} = 1$$

$$f'(0) = \frac{1}{x + 0} = \frac{f(x) - f(0)}{x + 0} = \frac{1}{x + 0} = \frac{1}{x + 0}$$

$$f(0) = 1$$
.

$$f(x) = 1.$$

$$f(x) = \begin{cases} 1, & x < 0, \\ \frac{1}{1+x}, & x > 0. \end{cases}$$

id:
$$\frac{dx}{dy} = \frac{2}{2y^{2}0} \frac{dx}{dy} = \frac{1}{0 \times 0} \frac{1}{2x} = \frac{1}{2} \frac{1}{2x}$$

$$x = \frac{\sin y}{dy} = \frac{dx}{dy} = \cos y = \int -\sin^2 y = \int -x^2$$

$$(\operatorname{prcsin})' = \frac{1}{\int -x^2}$$

$$(\operatorname{prcsin})' = -\frac{1}{\int -x^2}$$

$$(\operatorname{prc$$

$$\frac{\partial y}{\partial x}\Big|_{x=x_0} = \frac{\partial y}{\partial u}\Big|_{u=u_0} \frac{\partial y}{\partial x}\Big|_{x=x_0} = f(\varphi(x_0)) \varphi'(x_0)$$

$$= f(u)\Big|_{u=\varphi(x_0)} \cdot \varphi'(x_0)$$

$$\frac{\partial y}{\partial x} = \frac{\partial y}{\partial u} \cdot \frac{\partial u}{\partial x}$$

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