

Differentiate the following function

1. $y = x^3 3^x$, find $\frac{dy}{dx}$

let $f(x) = x^3$
and $g(x) = 3^x$

$\therefore f'(x) = 3x^2$
 $g'(x) = 3^x \ln 3$

$\therefore \frac{dy}{dx} = x^3 \cdot 3^x \ln 3 + 3x^2 \cdot 3^x$
 $= 3^x (x^3 \ln 3 + 3x^2)$

let $f(x) = 3^x$
and $g(x) = x^3 \ln 3 + 3x^2$

$\therefore f'(x) = 3^x \ln 3$
 $g'(x) = 3x^2 \ln 3 + 6x$

$\therefore \frac{d^2 y}{dx^2} = 3^x \cdot (3x^2 \ln 3 + 6x) + 3^x \ln 3 \cdot (x^3 \ln 3 + 3x^2)$
 $= 3^x (x^3 \ln^2 3 + 6x^2 \ln 3 + 6x)$

2. $y = \frac{e^x}{\sqrt{e^x + 1}}$

let $f(x) = e^x$
and $g(x) = \sqrt{e^x + 1}$

then $f'(x) = e^x$

To find $g'(x)$, we use the chain rule

let $u = e^x + 1 \therefore g(x) = u^{\frac{1}{2}}$

By chain rule $g'(x) = \frac{d}{du} g(u) \cdot \frac{du}{dx}$

Quotient Rule

If $y = \frac{f(x)}{g(x)}$, then

$$g'(x) = \frac{g(x)f'(x) - f(x)g'(x)}{[g(x)]^2}$$

Chain Rule

If $y = y(u(x))$, then

$$\frac{dy}{dx} = \frac{dy}{du} \cdot \frac{du}{dx}$$

\uparrow
derivative
of outer function
 \uparrow
derivative
of inside

Logic Notes Manual

Ying Liu



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