



Derivative Rules - Natural Exponential

Simple Exponent to Derivative

1 Find the derivative $f'(x)$ using the natural exponential rule and the chain rule. $f(x) = 3e^x$

A $f'(x) = 3e^x \cdot (x)$ B $f'(x) = 3(x)e^{x-1}$

C $f'(x) = 3e^x$

2 Find the derivative $f'(x)$ using the natural exponential rule and the chain rule. $f(x) = 2e^x$

A $f'(x) = 2e^x$ B $f'(x) = 2e^x \cdot (x)$

C $f'(x) = 2(x)e^{x-1}$

3 Find the derivative $f'(x)$ using the natural exponential rule and the chain rule.

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

A $f'(x) = e^x \cdot (x)$ B $f'(x) = e^x$

C $f'(x) = (x)e^{x-1}$

4 Find the derivative $f'(x)$ using the natural exponential rule and the chain rule. $f(x) = 5e^x$

A $f'(x) = 5e^x$ B $f'(x) = 5(x)e^{x-1}$

C $f'(x) = 5e^x \cdot (x)$

5 Find the derivative $f'(x)$ using the natural exponential rule and the chain rule. $f(x) = 4e^x$

A $f'(x) = 4(x)e^{x-1}$ B $f'(x) = 4e^x \cdot (x)$

C $f'(x) = 4e^x$