My Lab Problem on 3.9 Log. Orfferentration

Use logarithmic differentiation to evaluate f'(x).

$$f(x) = (3x)^{\ln 3x}$$

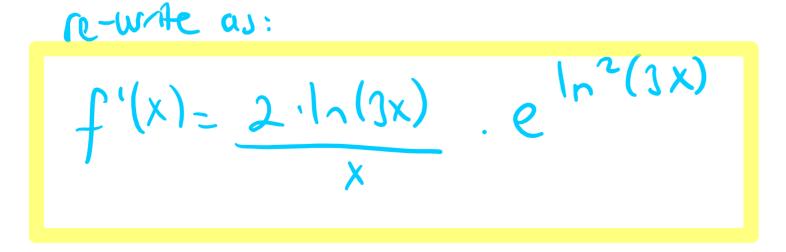
$$l_n(f(x)) = \int h(3x) \int h(3x) = l_n(3x) \cdot l_n(1x)$$

$$\bigcup e^{np}$$

$$f(x)_{0} = \frac{3}{3x} \cdot \ln(3x) + \ln(3x) \cdot \frac{3}{3x} = \frac{2}{x} \cdot \ln(3x) \cdot f(x) \quad \text{Diff.}$$

$$f'(x) = \frac{2}{x} \cdot \ln(3x) \cdot (3x) \cdot (3x) \quad \text{Get } f'(x) \text{ by field}$$

$$(3x) \quad \text{for } y \text{ for } y \text{ fo } y \text{ for } y \text{ fo } y \text{ fo$$



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