DIFFERENTIATOR

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1 I am here to find you and I will...

$$f = x^{4 \cdot x}$$

2 I did it... But at what cost

$$\frac{d}{dx} = e^{4 \cdot x \cdot \ln(x)} \cdot ((0 \cdot x + 1 \cdot 4) \cdot \ln(x) + \frac{1}{x} \cdot 1 \cdot 4 \cdot x)$$

3 The final trivial transition

$$\frac{d}{dx} = e^{4 \cdot x \cdot \ln(x)} \cdot \frac{1}{x} \cdot 4 \cdot x$$