

Chain Rule

Product Rule

Quotient Rule

Chain Rule

Product Rule

Quotient Rule

Chain Rule

Product Rule

Quotient Rule

Constant Multiple
Rule

Sum Rule

Sum Rule

Constant Multiple
Rule

Constant Multiple
Rule

Sum Rule

$$\frac{d}{dx} \left(2x + \frac{\ln((e^{2x} + 1)^3)}{\sin(x)} \right)$$

$$= 2 + \left(\frac{\sin(x) \cdot 6e^{2x}}{e^{2x} + 1} - \ln((e^{2x} + 1)^3) \cos(x) \right) \sin^2(x)$$

$$\frac{d}{dx} \left(2x + \ln((e^{2x} + 1)^3) \sin(x) \right)$$

$$= 2 + \sin(x) \frac{6e^{2x}}{e^{2x} + 1} + \ln((e^{2x} + 1)^3) \cos(x)$$

$$\frac{d}{dx} \left(2x + \ln((e^{2x} + 1)^3) \sin(x) \right)$$

$$= 2 + \sin(x) \frac{6e^{2x}}{e^{2x} + 1} + \ln((e^{2x} + 1)^3) \cos(x)$$

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