IG: elevateiq_tutoring
Email: elevateiqtutor@gmail.com

Examples:

$$\begin{cases}
f(x) = \frac{\sin(2x)}{x^2 + 1} & \text{Quotient Rule: } f(x) = \frac{\theta(x)}{\theta(x)} \\
f(x) = \frac{\sin(2x)}{x^2 + 1} & \frac{d}{dx} \frac{2x}{2x}
\end{cases}$$

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(3)
$$f(x) = \ln(x^2 + 1)$$
 Chain Pule: $f(x) = g(h(x))$
 $f(x) = g(h(x)) \cdot h'(x)$
 $f(x) = g(h(x))$

 $(\chi^2 + 1)^2$