
$$f(g(x)) = f'(g(x))g'(x) \quad (\text{four (4!) of these})$$

$$\frac{d}{dx} f(g(x)) = f(g(x))g'(x)$$

$$f'(g(x)) = f'(g(x))g'(x)$$

$$\frac{d}{dx} f(g)' = f'g \cdot g' dx$$

$$f \circ g?$$

$$\frac{d}{dx} f(g(x)) = f'g(x) \cdot f(g(x))'$$

$$g(f'(x)) \rightarrow f(x)'gx + g'(x)f(x)$$

$$F'(G(x)) = G'(x)x'$$

$$f(g(x)) = f'(g(x)) + g'(f(x))$$

$$(f(g))' = f'g \cdot g'$$

$$\frac{d}{dx} f(g(x)) = f'g(x)g'(x)$$

$$\frac{d}{dx} f(g(x)) = \frac{d}{dx} f(g(x)) \cdot \frac{d}{dx} g(x) \cdot \frac{d}{dx}$$

$$\frac{d}{dx} f'(g(x)) = f'(x)g(x) + f(x)g'(x)$$

$$\frac{d}{dx} f(g(x)) = f'(g(x)) + g'(x)$$

$$\frac{d}{dx} f(g(x)) = f(g(x))g'(x)$$

Parentheses Problems + ...

$$f(g(x)) = f'(g(x))(g'(x))$$

$$f'(g(x)) = f'(g(x))g'(x)$$

$$f(g(x)) = f'g(x) + f(g(x)')$$

$$\frac{d}{dx}f(g(x)) = f'(g(x))g'(x) \quad (\text{two of these})$$

$$f(g(x))' = f'(g(x))g'(x) \quad (\text{two of these})$$

$$\frac{d}{dx}f(gx) = f'(gx)g'x$$

$$f(g(x))' = f'(g(x)) \cdot g'(x)$$

$$\frac{d}{dx}f(g(x)) = f'(g(x))g'(x) \quad (\text{two of these})$$

$$f(gx) = f'(gx)g'x$$

$$[f(g(x))]' = f'(g(x))g'(x)$$

$$\frac{d}{dx}[f(g(x))] = f'(g(x))g'(x)$$

$$f(g(x))' = f'(g(x))g'(x)$$

$$\frac{d}{dy}f(g(x)) = f'(g(x))g'(x)$$

$$\frac{d}{dx}f(gx) = f'(gx)g'(x) \quad (\text{two of these})$$

$$\text{the chain rule of } f(g(x)) = f'(g(x))g'(x)$$

$$f(g(x))' = f'g(x)g'(x)$$

$$[f(g(x))]' = (f'g(x))g'(x)$$

$$f(gx)g'x$$

$$\frac{d}{dx}f(g(x)) = f(x)'g(x) + g(x)'f(x)$$

$$f(g(x)) = f'g(x) + f(g(x)')$$

$$\frac{d}{dx}fxy = f(x)y' \cdot f(x)'y$$
