

A.1.1.1. THE DERIVATIVE OF A FUNCTION OF A FUNCTION

DEFINITION 1.1.1.1

The Chain Rule

The derivative of a function of a function is often thought of as an "unzipped" derivative. Consider the function $y = f(g(x))$ where f is the outer function and g is the inner function. Then, the derivative of y with respect to x is $\frac{dy}{dx} = \frac{dy}{dg} \cdot \frac{dg}{dx}$.

If the variable x is the given, we determine the inner function g first, as if it changes from x to $x + \Delta x$, g will change by Δg . Then, the outer function f will change by Δy as g changes by Δg . The derivative of y with respect to x is $\frac{dy}{dx} = \frac{\Delta y}{\Delta x} = \frac{\Delta y}{\Delta g} \cdot \frac{\Delta g}{\Delta x}$.

$$\frac{dy}{dx} = \frac{dy}{dg} \cdot \frac{dg}{dx}$$

is called the derivative of y with respect to x . The derivative of the inner function g with respect to x is $\frac{dg}{dx}$.

Then, the derivative of y with respect to g is $\frac{dy}{dg}$. The derivative of y with respect to x is $\frac{dy}{dx}$.

$$\frac{dy}{dx} = \frac{dy}{dg} \cdot \frac{dg}{dx}$$

Consider the function $y = f(g(x))$. The derivative of y with respect to x is $\frac{dy}{dx} = \frac{dy}{dg} \cdot \frac{dg}{dx}$.

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$$\frac{dy}{dx} = \frac{dy}{dg} \cdot \frac{dg}{dx}$$

DEFINITION 1.1.1.2. The derivative of a function of a function is $\frac{dy}{dx} = \frac{dy}{dg} \cdot \frac{dg}{dx}$.

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|---|---|
| <p>(a) $\frac{d}{dx}(f(g(x))) = \frac{df}{dg} \cdot \frac{dg}{dx}$</p> <p>(b) $\frac{d}{dx}(f(g(x))) = \frac{df}{dg} \cdot \frac{dg}{dx}$</p> <p>(c) $\frac{d}{dx}(f(g(x))) = \frac{df}{dg} \cdot \frac{dg}{dx}$</p> <p>(d) $\frac{d}{dx}(f(g(x))) = \frac{df}{dg} \cdot \frac{dg}{dx}$</p> <p>(e) $\frac{d}{dx}(f(g(x))) = \frac{df}{dg} \cdot \frac{dg}{dx}$</p> <p>(f) $\frac{d}{dx}(f(g(x))) = \frac{df}{dg} \cdot \frac{dg}{dx}$</p> | <p>(g) $\frac{d}{dx}(f(g(x))) = \frac{df}{dg} \cdot \frac{dg}{dx}$</p> <p>(h) $\frac{d}{dx}(f(g(x))) = \frac{df}{dg} \cdot \frac{dg}{dx}$</p> <p>(i) $\frac{d}{dx}(f(g(x))) = \frac{df}{dg} \cdot \frac{dg}{dx}$</p> <p>(j) $\frac{d}{dx}(f(g(x))) = \frac{df}{dg} \cdot \frac{dg}{dx}$</p> <p>(k) $\frac{d}{dx}(f(g(x))) = \frac{df}{dg} \cdot \frac{dg}{dx}$</p> <p>(l) $\frac{d}{dx}(f(g(x))) = \frac{df}{dg} \cdot \frac{dg}{dx}$</p> |
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DEFINITION 1.1.1.3. The derivative of a function of a function is $\frac{dy}{dx} = \frac{dy}{dg} \cdot \frac{dg}{dx}$.

- (a) Express y as a function of x and differentiate.
- (b) Express y as a function of x and differentiate.
- (c) Express y as a function of x and differentiate.
- (d) Express y as a function of x and differentiate.
- (e) Express y as a function of x and differentiate.
- (f) Express y as a function of x and differentiate.
- (g) Express y as a function of x and differentiate.
- (h) Express y as a function of x and differentiate.
- (i) Express y as a function of x and differentiate.
- (j) Express y as a function of x and differentiate.
- (k) Express y as a function of x and differentiate.
- (l) Express y as a function of x and differentiate.
- (m) Express y as a function of x and differentiate.
- (n) Express y as a function of x and differentiate.
- (o) Express y as a function of x and differentiate.
- (p) Express y as a function of x and differentiate.
- (q) Express y as a function of x and differentiate.
- (r) Express y as a function of x and differentiate.
- (s) Express y as a function of x and differentiate.
- (t) Express y as a function of x and differentiate.
- (u) Express y as a function of x and differentiate.
- (v) Express y as a function of x and differentiate.
- (w) Express y as a function of x and differentiate.
- (x) Express y as a function of x and differentiate.
- (y) Express y as a function of x and differentiate.
- (z) Express y as a function of x and differentiate.

Calculusconcept Applications

Katrin Zwirgmaier



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