MOBILE APPS

derivative

Examples Random

Assuming "derivative" refers to a computation | Use as a general topic or referring to a mathematical definition or a word instead

■ function to differentiate: x^2y+(xy)^1/2-3:

Also include: differentiation variable

Derivative:

Step-by-step solution

$$\frac{\partial}{\partial y} (x^2 y + \sqrt{x y} - 3 x^3 = 2 y^5 + \cos(2 y)) =$$

$$\left(-9 \times \frac{dx}{dy} x^2 + 2 y \times \frac{dx}{dy} x + \frac{y \times \frac{dx}{dy} + x}{2\sqrt{x y}} + x^2 = 10 y^4 - 2 \sin(2 y) \right)$$

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