



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: $(x^3 + x^2) \cdot \sin x$

Also include: differentiation variable

Derivative:

Step-by-step solution

$$\frac{d}{dx}((x^3 + x^2) \cdot \sin(x)) = (x^3 + x^2) \cdot \cos(x) + (x(3x + 2)) \cdot \sin(x)$$

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Related Queries:

= integrate $(x^3 + x^2) \cdot \sin(x)$ dx= series of $(x^3 + x^2) \cdot \sin(x)$ at $x = 0$ = $d^2/dx^2((x^3 + x^2) \cdot \sin(x))$ = limit of $(x^3 + x^2) \cdot \sin(x)$ as $x \rightarrow -\infty$ [About](#) [Pro](#) [Products](#) [Mobile Apps](#) [Business Solutions](#) [For Developers](#) [Resources & Tools](#)[Blog](#) [Community](#) [Participate](#) [Contact](#) [Connect](#)© 2015 Wolfram Alpha LLC—A Wolfram Research Company [Terms](#) [Privacy Policy](#)