



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: $\ln(x^2 + 3x)$

Also include: differentiation variable

Derivative:

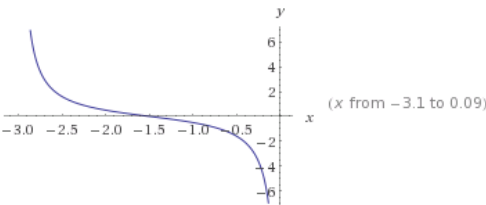
Step-by-step solution

$$\frac{d}{dx}(\log(x^2 + 3x)) = \frac{2x + 3}{x^2 + 3x}$$

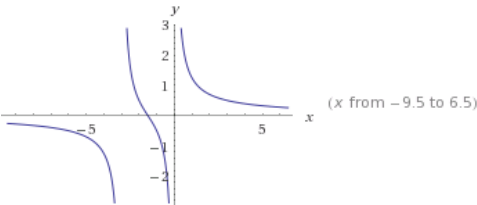
$\log(x)$ is the natural logarithm

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Plots:



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Alternate forms:

$$\frac{1}{x + 3} + \frac{1}{x}$$
$$\frac{2x + 3}{x(x + 3)}$$

Expanded form:

$$\frac{2x}{x^2 + 3x} + \frac{3}{x^2 + 3x}$$

Root:

Approximate form

Step-by-step solution

$$x = -\frac{3}{2}$$

Differential geometric curves:

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Inverse iterations:

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Related Queries:

- = pronunciation differentiation

= tangent line of $y = \log(x^2+3x)$ at $x = 1$
- = invert colors image of Heatran-like curve

= $d^n/dx^n f[x^2]$

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