

3.3a Rules for Differentiation

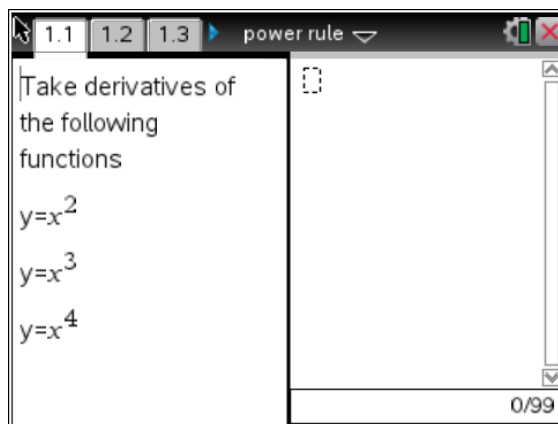
$$f(x) = 5$$

$$f(x) = -3$$

$$\frac{d}{dx} c =$$

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Use power rule.tns to discover the power rule for derivatives.



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Proof of the Power Rule

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find $\frac{dy}{dx}$ if $y = x^3 + 6x^2 - \frac{5}{3}x + 16$

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find horizontal tangent of $y = x^4 - 2x^2 + 2$

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higher order derivatives:

$$y = x^4 - 2x^2 + 2$$

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