

SCHOOLEASY

APPUNTI FACILI PER TUTTI



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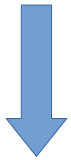
Due derivate al volo con i logaritmi

DUE DERIVATE AL VOLO

$$y = \ln(\sin^2 x)$$



$$y' = \frac{1}{\sin^2 x} \cdot 2 \sin x \cdot \cos x = \frac{2 \sin x \cdot \cos x}{\sin^2 x}$$



$$y' = \frac{2 \cos x}{\sin x} = 2 \cot x$$

$$D \ln(x) = \frac{1}{x} \cdot x' = \frac{1}{x}$$

$$D \ln(x^2) = \frac{1}{x^2} \cdot 2x = \frac{2}{x}$$

$$D x^\alpha = \alpha x^{\alpha-1}$$

$$D \sin(x) = \cos(x)$$

$$D \sin^2(x) = 2 \sin x \cdot \cos x$$

DUE DERIVATE AL VOLO

$$y = \ln \frac{x^2 - 1}{2x + 3}$$



$$y' = \frac{1}{\frac{x^2 - 1}{2x + 3}} \cdot (\cdot)'$$

$$\left(\frac{x^2 - 1}{2x + 3}\right)' = \frac{2x(2x + 3) - (x^2 - 1)2}{(2x + 3)^2}$$



$$y' = \frac{1}{\frac{x^2 - 1}{2x + 3}} \cdot \frac{2x(2x + 3) - (x^2 - 1)2}{(2x + 3)^2} = \frac{2(x^2 + 3x + 1)}{(x^2 - 1)(2x + 3)}$$

$$D \ln(x) = \frac{1}{x} \cdot x' = \frac{1}{x}$$

$$D \ln(x^2) = \frac{1}{x^2} \cdot 2x = \frac{2}{x}$$

$$D \frac{f(x)}{g(x)} = \frac{f'(x) \cdot g(x) - f(x) \cdot g'(x)}{g^2(x)}$$

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