4/12/2020

$$\frac{1}{6} \frac{2}{\sqrt{12}} = \frac{1}{6} \frac{6}{\sqrt{12}} \frac{2}{\sqrt{12}} = \frac{1}{6} \frac{6}{\sqrt{12}} \frac{1}{\sqrt{12}} = \frac{6}{6} \frac{1}{\sqrt{12}} \frac{1}{\sqrt{12}} =$$

$$= \frac{1+12\sqrt[3]{x}}{6\sqrt[6]{x^5}}$$

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$$y = \sqrt{x} - \ln \frac{1}{x^2} + e^4$$
 $\left[y' = \frac{1}{4\sqrt[4]{x^3}} + \frac{2}{x} \right]$
 $y = \sqrt[4]{x} - \ln x^2 + e^4$
 $= x^{\frac{1}{4}} + 2 \ln x + e^4$

DEPAURTA DI $\ln x (x + e^4) - \ln x$
 $= \lim_{k \to 0} \ln \left(\frac{x + \ln}{x} \right) - \lim_{k \to 0} \ln \left(\frac{x + \ln}{x} \right) = \lim_{k \to 0} \ln \left$

Colcdore la derivota:

$$y = \log_a x$$

$$y = \log_a x = \frac{\ln x}{\ln a}$$

$$y' = \frac{dy}{dx} = \frac{1}{\ln a} \cdot (\ln x)' = \frac{1}{x \ln a}$$

Colabor le devinte di
$$y = a^{\times}$$
 $y = a^{\times} = e \ln a^{\times} = e^{\times \ln a} \leftarrow confosizione Si a^{\times}$
 $y = f(g(x)) \Rightarrow y' = f'(g(x)) \cdot g'(x)$
 $y' = (a^{\times})' = (e^{\times \ln a})' = e^{\times \ln a} \cdot \ln a = a^{\times} \cdot \ln a$
 $f(x) = e^{\times} \quad f'(x) = e^{\times}$
 $g(x) = \times \ln a \quad g'(x) = \ln a$

