30-10-2017

lunedì 30 ottobre 2017 12:44

1)
$$\int : (1; t00) \rightarrow \mathbb{R}$$
 $\int (x) = \frac{\cos(1-x^2) \sin(x^2-1)}{(x-1)^2}$

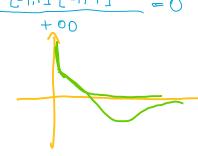
$$\lim_{x \to 7+00} \frac{\cos(1-x^2) \sin(x^2-1)}{(x-1)^2} = \frac{[-1;1] \cdot [-1;1]}{+\infty} = \frac{1}{2}$$

$$\lim_{x \to 7+} \begin{cases} (x)^2 & \underbrace{1 \cdot 0}_{02} = \begin{bmatrix} \underline{0} \\ \underline{0} \end{bmatrix}$$

$$COS(1-x_5) = 1 - (1-x_5) + O(x_5)$$

$$\lim_{x \to 1^{+}} \frac{1 - \frac{1}{2} + \frac{x^{2}}{2} + \theta'(x^{2})}{x^{2} - 2x + 1} = \lim_{x \to 1^{+}} \frac{\frac{1}{2}x^{2} + \frac{1}{2} + \frac{1}{2} + 0}{x - 2 + \frac{1}{2}} = \frac{3}{2} = 400$$

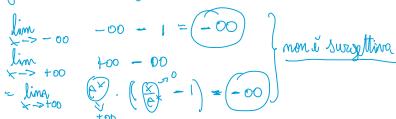
lim --> too --> too --> too --> too



, & o illim, sup elim. in mon ha musk mus potrables poer min mon ci

$$\frac{N^{0} Z}{\frac{1}{2}} = \frac{1}{2} \left(|R| - \frac{1}{2} |R| \right) = \frac{1}{2} \left(|R| - \frac{1}{2} |R| \right)$$

mitting, surgetting...?





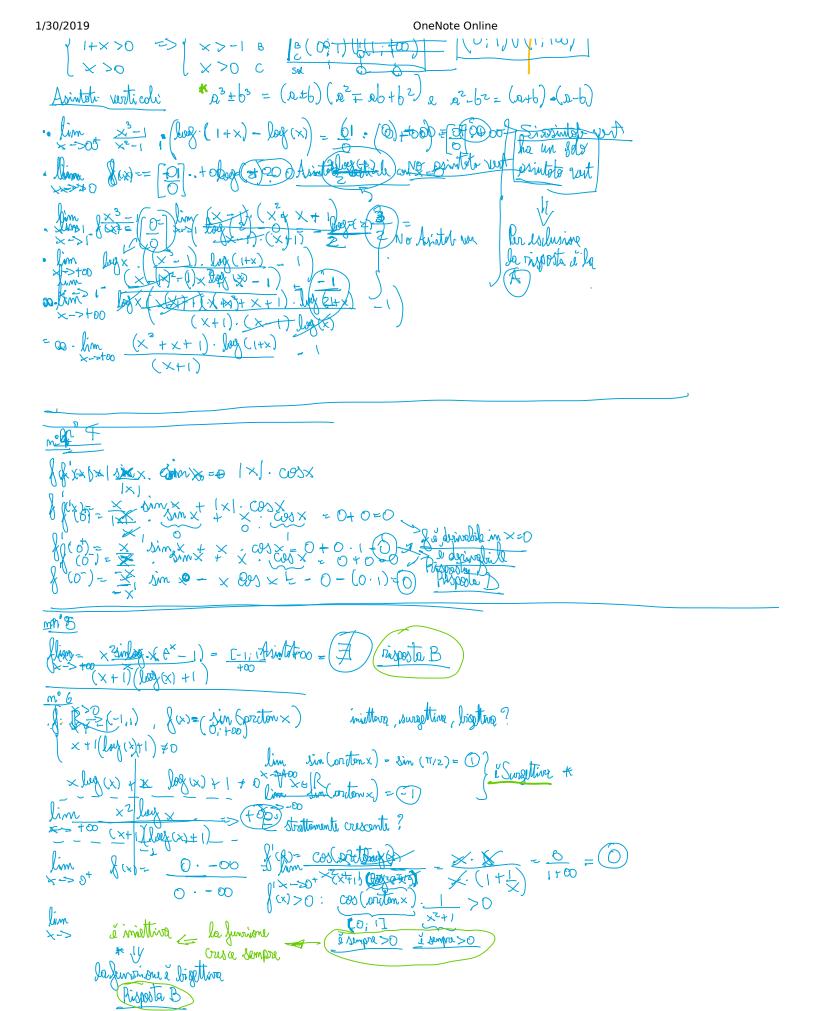
Non à me iniettiva me surrettura

m° 3

$$\begin{cases} \langle x \rangle = \frac{x^3 - 1}{\sqrt{2} - 1} & (\log (1 + x) - \log (x)) \end{cases}$$









 $\begin{cases}
|R| & \text{for } |R| & \text{for$

$$(\omega) = e^{\frac{\omega-1}{2\omega+1}} \quad \text{limitate? In min for now?}.$$

$$\cdot \quad \text{lim.} \quad e^{\frac{\omega-1}{2\omega+1}} = e^{\circ} = 0$$

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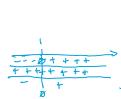
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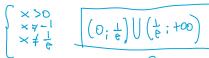
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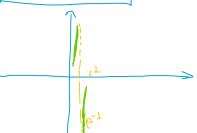


Oltro ×= 1 la f ve eltro l'asimteto y= 1 par pai all'infinita (±00) provisionersia pd uses

confermata

 $f(x) = \frac{x^2 \log x}{(x+1)((\log x)+1)}$ $dom (x) = \int_{\mathbb{R}^n} \frac{x > 0}{(x+1)((\log x)+1)} \neq 0 \Rightarrow \begin{cases} x > 0 \\ x \neq -1 \\ x \neq \frac{1}{e} \end{cases}$ $(0; \frac{1}{e}) | (\frac{1}{e}; +00)$





Verticali?

$$\begin{bmatrix} 0.-00 & = \begin{bmatrix} 0.(-00) \end{bmatrix} \\ 1.-00 & -00 \end{bmatrix}$$

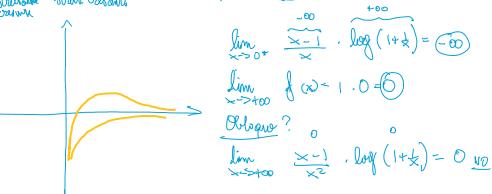
 $\lim_{x \to \pm^{+}} x^{2} \log(x) = \underbrace{e^{-2} \log(e^{-1})}_{(e^{-1}+1) \cdot (\log(e^{-1})+1)} = \underbrace{e^{-2} \cdot -1}_{(e^{-1}+1) \cdot (\log(e^$

$$\frac{2}{(-1)} = \frac{-2}{0} = \frac{-2}{0}$$

lim = 8(x)= -e = +00

Conclusione, ha un solo sossitata verticale a x= 1 = (Risporto C

 $f:(0;+\infty) \rightarrow \mathbb{R}$, f:x = x-1 log $(1+\frac{1}{x})$ E' debolmente czescente $(\forall x_1, x_2 \mid x_1 < x_2 \mid f:x) \leq f(x_2))$ f:x = x-1 log $(1+\frac{1}{x}) \Rightarrow \omega$ une funcion struttonete cusente $(\forall x_1, x_2 \mid x_1 < x_2 \mid f:x) \leq f(x_2))$



Le Junione Norg ha min, potreble overe mix, é sempre cresient, mon ha cu visint oblique e mon à limitation quanto con x = 0+ tende a -00 Ar esdusione la risporta à (A)