$$\begin{cases}
f(x) = \frac{x^2 - x - 4}{x - 1} \\
x - 1
\end{cases}$$

$$\begin{cases}
(-1, \frac{-x}{-x} 1) \\
0, 4
\end{cases}$$

$$\begin{cases}
(-1, \frac{-x}{-x} 1$$

Se e 11 => stesso coeff. Impolore ma le coeff. In golori e f'(xp)  $f'(x_p) = 3$  $f'(x) = \frac{(2x-1)(x-1) - (x^2-x-4)\cdot 1}{(x-1)^2}$   $= \frac{x^2 - 2x + 5}{(x-1)^2}$ 

$$3 = \frac{x^2 - 2x\rho + 5}{\left(x\rho - 1\right)^2}$$

$$3(xr^2 + 1 - 2xr) = xr^2 - 2xr + 5$$

$$x_{p}^{2} - 7 \times p - 1 = 0$$

$$X_{p}^{2} - 2 \times p - 1 = 0$$

$$X_{1} = 2 \pm \sqrt{4 + 5} = 2 \pm 2\sqrt{2} = 1 \pm \sqrt{2}$$

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$$\begin{cases}
x = |x+1| - 2x \\
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\end{cases}$$

$$\begin{cases}
x = |x+1| - 2x \\
y = |x+1| - 2x
\end{cases}$$

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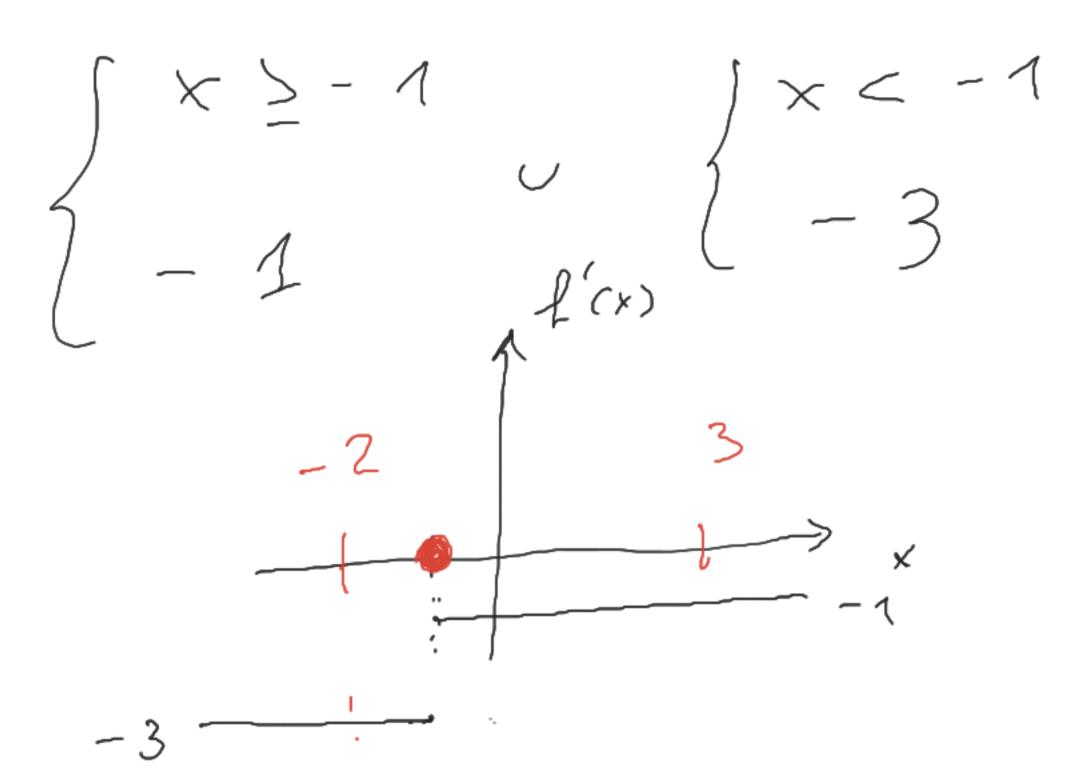
$$\begin{cases}
x = |x+1| - 2x \\
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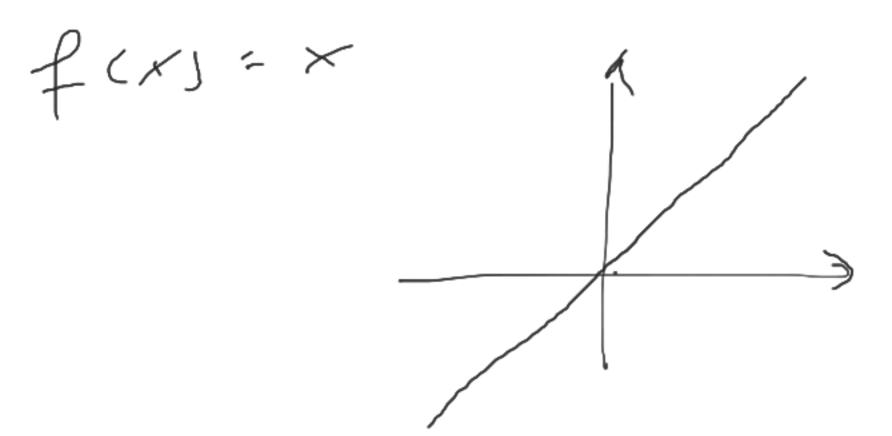
$$\begin{cases}
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$$\begin{cases}
x = |x+1| - 2x \\
y = |x+1| - 2x
\end{cases}$$

$$\begin{cases}
x = |x+1$$



f(x) = |x| f(x)



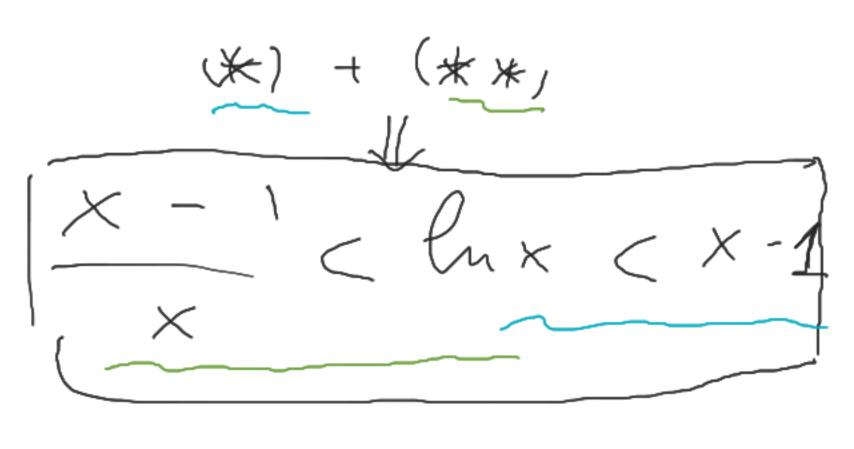
$$\begin{bmatrix} 1, \times \end{bmatrix} & 1 < C < \times \\ 1 - 1 & < \ln \times < \times -1 \\ \times - 1 & < \ln \times < \times -1 \\ \times - 1 & < \ln \times < \times -1 \\ \end{pmatrix}$$

$$\begin{cases} 1 < C \\ \times \\ \end{pmatrix} = \begin{cases} \ln(x) - \ln(x) \\ \times - 1 \end{cases} = \begin{cases} \ln(x)$$

 $ln(x) = (x-1) \cdot f'_{\alpha}$   $\frac{x-1}{\alpha}$ 

th. logrange

ln(x) $\frac{1}{c} > \frac{1}{x}$  X \* \*



$$\lim_{x \to \frac{\pi}{4}} \frac{1}{\ln \left( \sin \left( 2 \times 1 \right) \right)} = \frac{\sqrt{2}}{2} + \frac{\sqrt{2}}{2} - \sqrt{2}$$

$$\lim_{x \to \frac{\pi}{4}} \frac{\ln \left( \sin \left( 2 \times 1 \right) \right)}{\ln \left( \sin \left( 2 \times \frac{\pi}{4} \right) \right)}$$

$$\lim_{x \to \frac{\pi}{4}} \frac{1}{\ln \left( \sin \left( 2 \times 1 \right) \right)} = \frac{\sqrt{2}}{\ln \left( 1 \right)} = \frac{\sqrt{2}}{2}$$

$$\lim_{x \to \frac{\pi}{4}} \frac{1}{\ln \left( 1 \right)} \frac{1}{\ln \left( 1 \right)} = \frac{\sqrt{2}}{2}$$

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$$\lim_{x \to 0^{+}} \frac{2^{3x} - 3^{4x}}{x^{2}} \longrightarrow \frac{1 - 1}{0} = \frac{2}{3}$$

$$\lim_{x \to 0^{+}} \frac{2^{3x} \cdot \ln 2 \cdot 3 - 3^{4x} \cdot \ln 3 \cdot 4}{2x}$$

$$\lim_{x \to 0^{+}} \frac{2^{3x} \cdot \ln 2 \cdot 3 - 3^{4x} \cdot \ln 3 \cdot 4}{2 \times 3 \cdot 1} = -\infty$$

$$\lim_{X\to 0} \frac{X-\operatorname{Sen}(X)}{X(1-\operatorname{CoS}X)} \to \frac{0-0}{0(1-1)}$$

$$\lim_{X\to 0} \frac{1-\operatorname{CoS}X}{1-\operatorname{CoS}X} \to \frac{1-1}{1-1+0}$$

$$\lim_{X\to 0} \frac{\operatorname{Sen}X}{1-\operatorname{CoS}X} + X\operatorname{Sen}X \to \frac{0}{0+0}$$

$$\lim_{X\to 0} \frac{\operatorname{Sen}X}{2\operatorname{CoS}X} + \operatorname{CoS}X - X\operatorname{Sen}X \to \frac{1-1}{2+1-0} = \frac{1}{3}$$