$$\begin{cases} \begin{cases} \lim_{x \to 0} \frac{\sin x + \ln x}{x} - \lim_{x \to 0} \frac{\sin x}{x} + \lim_{x \to 0} \frac{\ln x}{x} = \\ = 1 + \lim_{x \to 0} \frac{\ln x}{x} = \frac{2}{\ln 2} \frac{2}{\ln 2$$

Nonanue upouslo-guois

1)
$$a |f| \sin x \cdot \cos x$$

 $f'(x) = \left| \sin x \cdot \cos x \right|' = \sin' x \cdot \cos x + \cos' x \cdot \sin x =$

$$= \cos^2 x - \sin^2 x = \cos 2x$$

b)
$$f(x) = ln(2x+1) = \frac{1}{2}$$

 $f'(x) = ln'(2x+1) = \frac{1}{2x+1} \cdot 2 = \frac{2}{2x+1}$

$$e^{1/2} = \frac{x^{4}}{\ln x} = \frac{4x^{3} \ln x - x^{4} \frac{1}{x}}{\ln^{2} x} = x^{3} \frac{(4 \ln x - 4)}{\ln^{2} x}$$