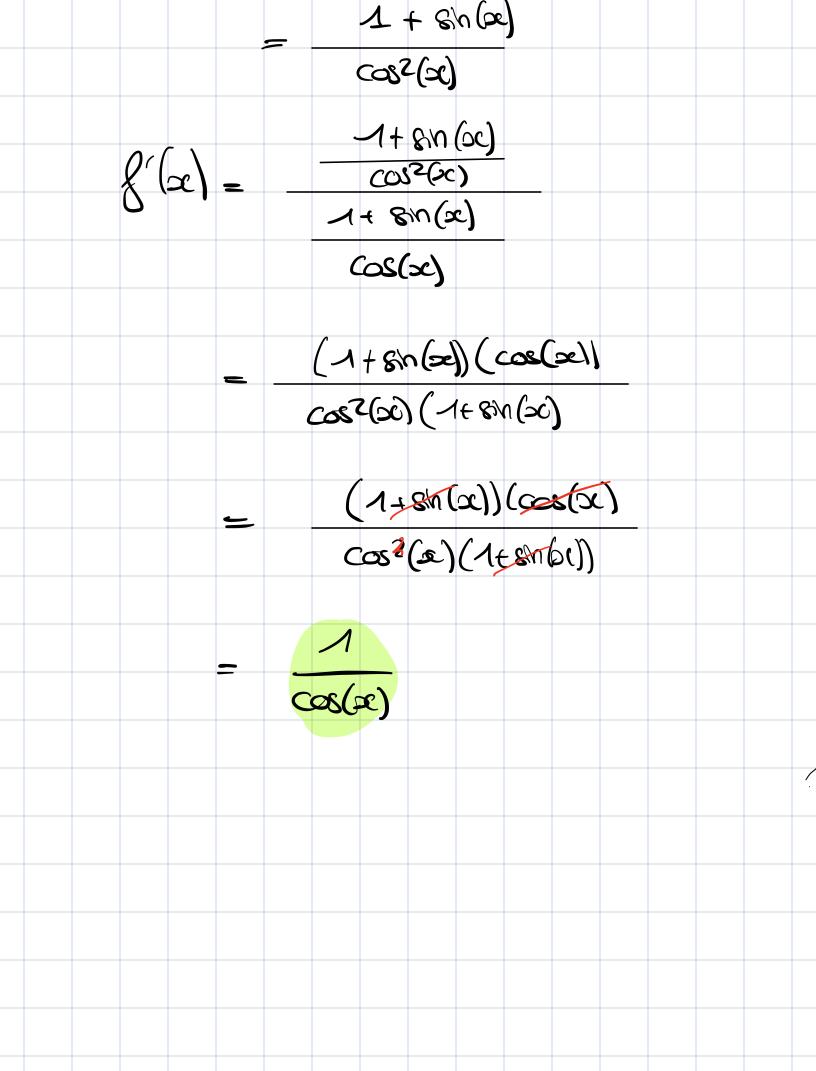
$$\frac{\left(S.1\right)}{S\left(x\right)} = \frac{\left(1+x^{\mu}\right) - x\left(4x^{3}\right)}{\left(x^{\mu}\right)^{2}}$$

$$S_{2} = 2x(1+x^{2}+x^{4})-x^{2}(2x+4x^{3})$$

$$(1+x^{2}+x^{4})^{2}$$

$$= \frac{2x + 2x^3 + 2x^3 - 2x^3 - 4x^4}{(1+x^2+x^4)^2}$$

$$=\frac{2x-2x^{2}}{(1+x^{2}+x^{4})^{2}}$$



$$S.8$$

$$S(x) = \begin{cases} x^{2} \sin(\frac{1}{2}) & \sin x \neq 0 \\ 0 & \sin x = 0 \end{cases}$$

$$S(x) = \begin{cases} 2x \sin(\frac{1}{2}) + x^{2} \left(\frac{1}{2}\right) \cos(\frac{1}{2}) \\ \sin x \neq 0 \end{cases}$$

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$$S(x) = \begin{cases} -(-2x^{-3})e^{-\frac{1}{2}} \sin x \neq 0 \end{cases}$$

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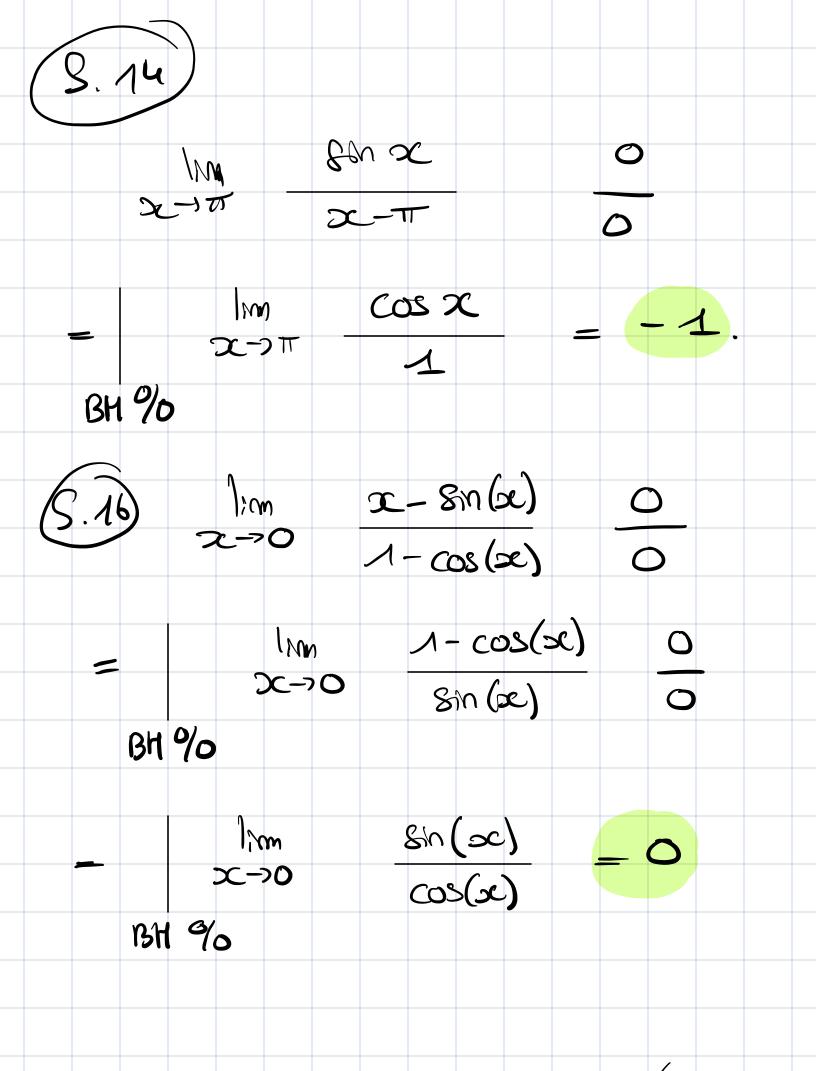
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$$S(x) = \begin{cases} -(-2x^{-3})e^{-\frac$$

S.11
$$| lim | e^{x^2} - 1 |$$
 $| x \rightarrow 0 | x = 0 |$
 $| lim | 2xe^{x^2} = 0 |$
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$$= \frac{2^{1/2} - 2^{1/2}}{2^{1/2}}$$

$$= \frac{\ln \sqrt{2}}{2^{1/2}} = \frac{\ln (2)}{2^{1/2}} = \frac{\ln (2)$$



$$|x| = |x| = |x|$$

BH 96

$$= 1$$

$$S. 18$$

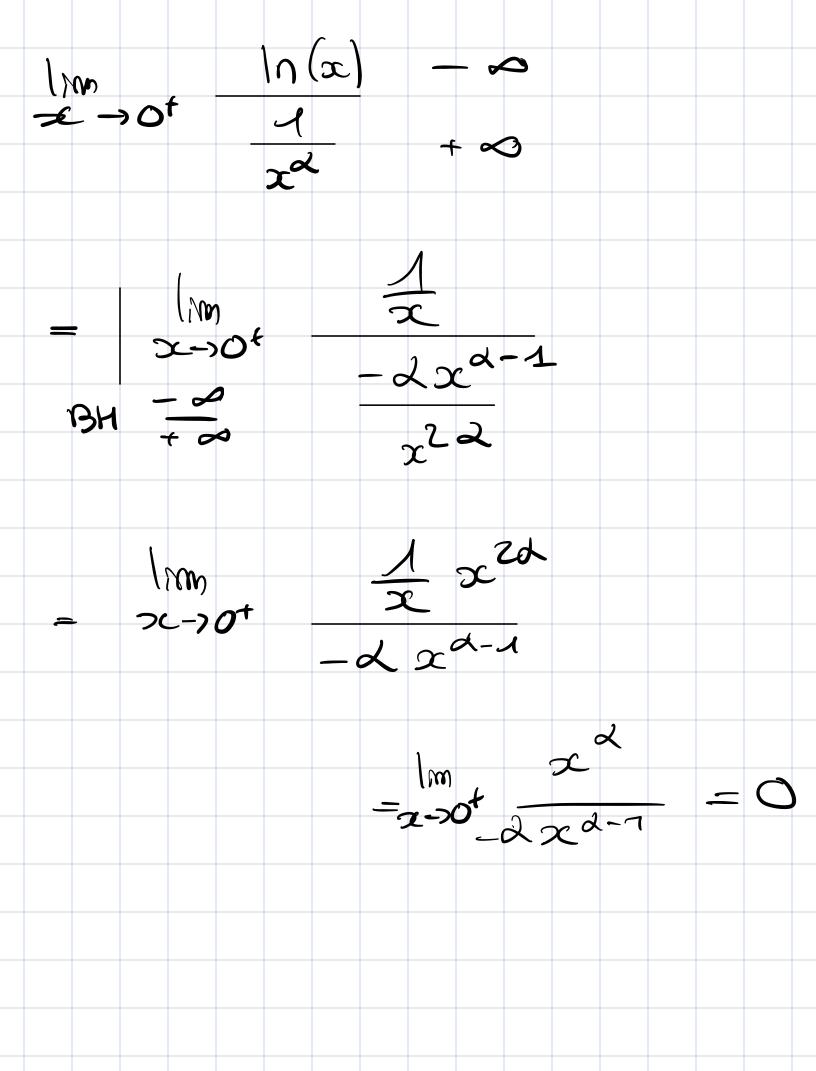
$$x - 1$$

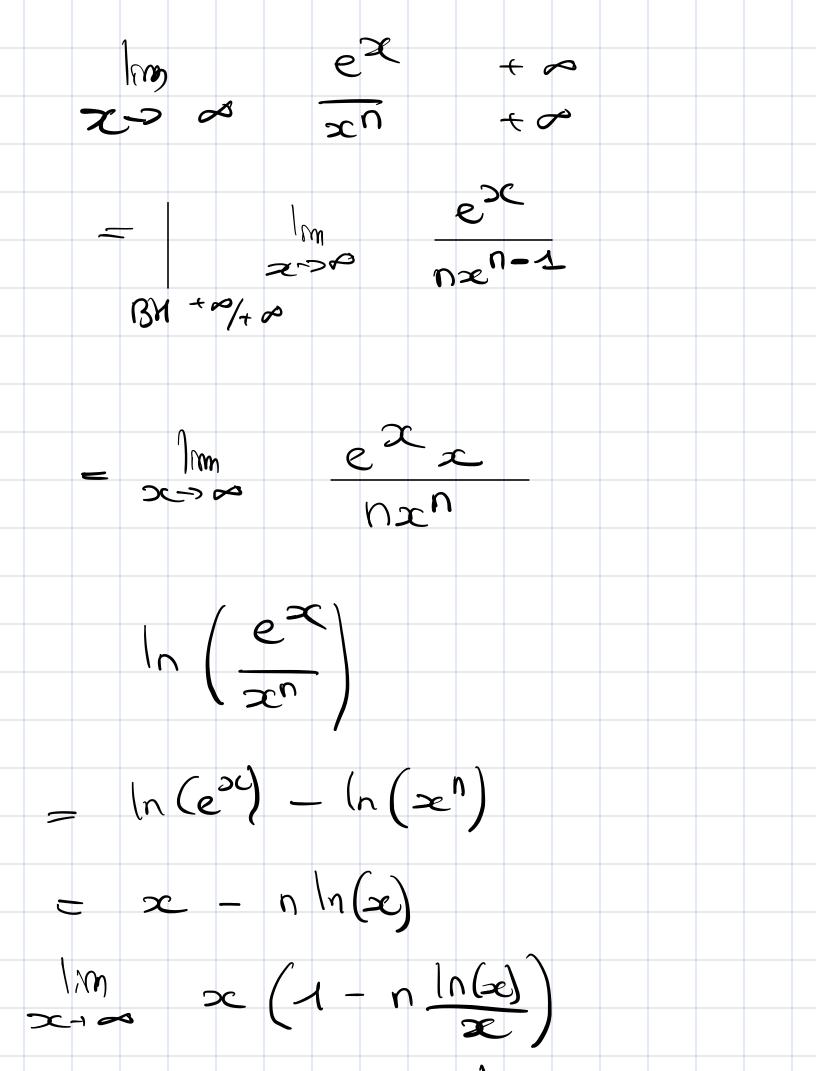
$$x - 1$$

$$x - 1$$

$$x + (1-x)$$

$$1 + (1-$$

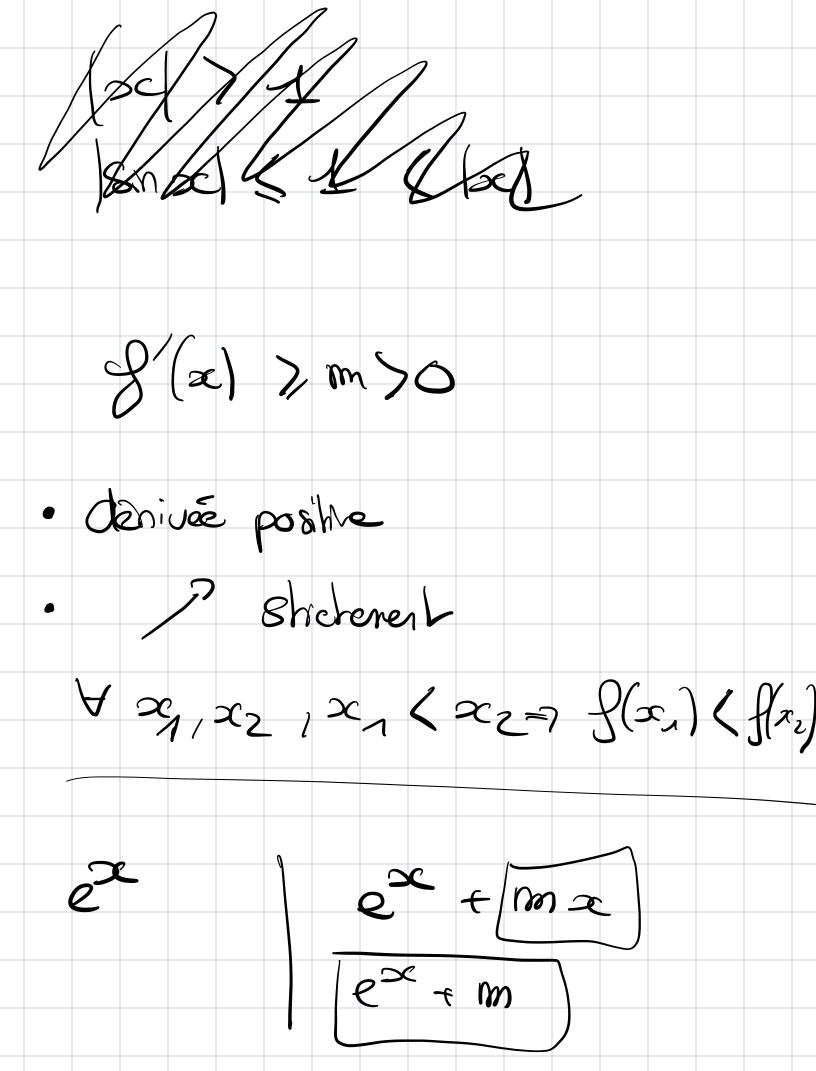




$$|8in \infty| \langle |\infty|$$

$$|xc|$$

$$|xc$$



Si
$$g'(x) > m > 0$$

alors $lim = f(x) < 0$

et $x \rightarrow -\infty$ $g(x) = 0$