15.
$$f'(x) = \frac{2}{x} - \frac{2 \ln x}{x} = \frac{2 - 2 \ln x}{x} = \frac{2 (1 - \ln x)}{x}$$

Sine de 2/1-lnx):

2/1-hx)>0 => 1-hx>0 => hx21 => x2e

Signe de x: x>0

*	0	e	+00
2 (1-lnx)	/	+ φ -	
X	/	+	
<u></u> +'	/	+ 0 -	
f		7 fle)	~

$$\lim_{x \to +\infty} f(x) = \lim_{x \to +\infty} \left(-(\ln x)^2 \right) = -\infty$$