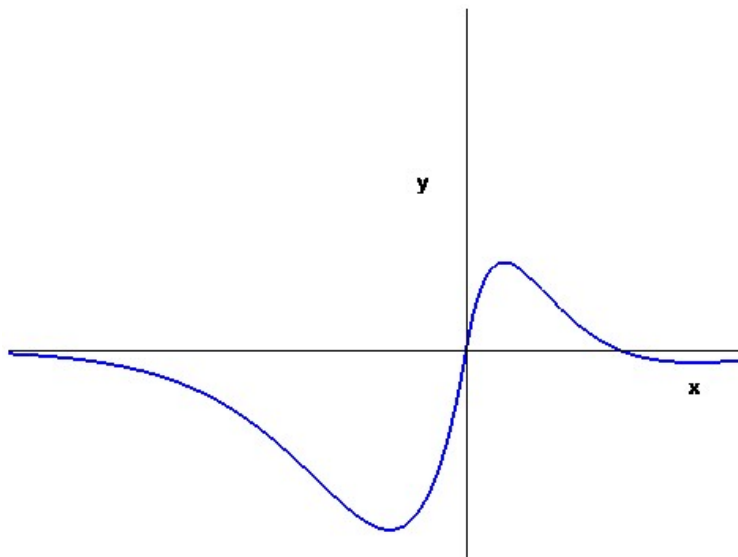


Studio di funzioni

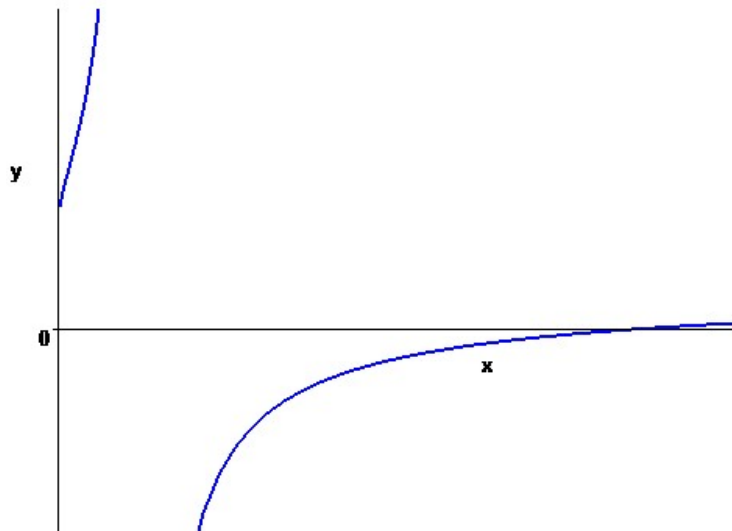
1. $f(x) = (4x - 3x^2)e^{-2|x|}$

R.: $f'(x) = e^{-2|x|} (4 - 6x - 8x \operatorname{sgn} x + 6x^2 \operatorname{sgn} x)$



2. $f(x) = \frac{\log x - 1}{\log x + 1}$

R.: $f'(x) = \frac{2}{x(\log x + 1)^2}$



$$3. \ f(x) = \log \frac{(|x| - 1)^2}{x + 1}$$

$$R.: \ f(x) = \frac{|x| + 2 \operatorname{sgn} x + 1}{(|x| - 1)(x + 1)}$$

