

Ex 1: Calculer  $f'(x)$  pour chaque cas :

①  $f(x) = 1 + e^x$

②  $f(x) = e^{2-3x}$

③  $f(x) = (x^2 + 1)e^{-2x}$

④  $f(x) = xe^x$

⑤  $f(x) = xe^{\sqrt{x^2+1}}$

⑥  $f(x) = 1 - e^{-x}$

⑦  $f(x) = (2x-1)e^x$

⑧  $f(x) = e^{\sqrt{x}}$

⑨  $f(x) = \frac{e^x - e^{-x}}{e^x + e^{-x}}$

⑩  $f(x) = e^{\frac{1}{\ln x}}$