

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 $f(x) = x \cdot e^{\sqrt{x^2+1}}$

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 $f(x) = e^{\frac{1}{\ln x}}$