

Fonction exponentielle : exemples de calculs de $f'(x)$

01. $f(x) = 5e^x$	$f'(x) = 5e^x$
02. $f(x) = 7e^{-x}$	$f'(x) = -7e^{-x}$
03. $f(x) = 2e^{3x+5}$	$f'(x) = 6e^{3x+5}$
04. $f(x) = e^{0,7x-1}$	$f'(x) = 0,7e^{0,7x-1}$
05. $f(x) = e^x - 8$	$f'(x) = e^x$
06. $f(x) = e^{-3x} + x^2 + 1$	$f'(x) = -3e^{-3x} + 2x$
07. $f(x) = xe^x$	$f'(x) = (x + 1)e^x$
08. $f(x) = (3x - 5)e^x$	$f'(x) = (3x - 2)e^x$
09. $f(x) = x^2e^x$	$f'(x) = (x^2 + 2x)e^x$
10. $f(x) = xe^{-x}$	$f'(x) = (-x + 1)e^{-x}$
11. $f(x) = x^2e^{-x}$	$f'(x) = (-x^2 + 2x)e^{-x}$
12. $f(x) = (e^x + 1)^2$	$f'(x) = 2e^x(e^x + 1)$
13. $f(x) = \frac{e^x + 1}{e^x - 1}$	$f'(x) = \frac{-2e^x}{(e^x - 1)^2}$
14. $f(x) = \frac{1}{e^x + 2}$	$f'(x) = \frac{-e^x}{(e^x + 2)^2}$
15. $f(x) = (e^x + x)^3$	$f'(x) = 3(e^x + 1)(e^x + x)^2$
16. $f(x) = \sqrt{e^x + x^2 + 1}$	$f'(x) = \frac{e^x + 2x}{2\sqrt{e^x + x^2 + 1}}$