

Quiz 22

Exercice 1

Vrai ou faux

(a) Si $f(x) = \frac{x^2 + x}{2}$ (1) $f'(x) = 2x + 1$

(2) $f'(x) = \frac{2x + 1}{2}$

(3) $f'(x) = x + \frac{1}{2}$

(b) Si $f(x) = \frac{2x-1}{x-3}$ (1) $f'(x) = \frac{-5}{(x-3)}$

(2) $f'(x) = \frac{-5}{(x-3)^2}$

(c) Si $f(x) = 5x^3 - 3x^2 + x - \sqrt{2}$

(1) $f'(x) = 5x^2 - 3x + 1$

(2) $f'(x) = 15x^2 - 6x + 1 - \sqrt{2}$

(3) $f'(x) = 15x^2 - 6x + 1$

(d) Si $f(x) = \frac{x}{2} - \frac{3}{x}$ (1) $f'(x) = \frac{1}{2} - \frac{3}{x}$

(2) $f'(x) = \frac{1}{2} - \frac{3}{x^2}$

(3) $f'(x) = \frac{1}{2} + \frac{3}{x^2}$

(e) Si $f(x) = (-5x + 9)^3$

(1) $f'(x) = 15(-5x + 9)^2$

(2) $f'(x) = -15(-5x + 9)^2$

(3) $f'(x) = -15(5x - 9)^2$

(f) Si $f(x) = \frac{7x+5}{4x-1}$

(1) $f'(x) = \frac{7x+5}{(4x-1)^2}$

(2) $f'(x) = \frac{7}{(4x-1)^2}$

(3) $f'(x) = \frac{-27}{(4x-1)^2}$