

Exercice 2:

Prof: CHAKOUR

Determiner les fonctions primitives de f par chq cas:

① $f(x) = \frac{3}{\sqrt{x}} - x + 7$; ② $f(x) = x e^{x^2-1}$

③ $f(x) = x e^{1-x^2}$; ④ $f(x) = \frac{1}{x^3} + \frac{1}{x^2} + 5$

⑤ $f(x) = 3x^2 (x^3 + 7)^8$; ⑥ $f(x) = x^2 (7 + x^3)^4$

⑦ $f(x) = (x+1)(x^2 + 2x + 5)$; ⑧ $f(x) = 2x^2 (x^5 - 1)$

⑨ $f(x) = \frac{x-1}{\sqrt{x^2 - 2x + 3}}$; ⑩ $f(x) = \frac{e^x}{e^x + 1}$

⑪ $f(x) = \frac{2x}{(x^2 + 1)^2}$; ⑫ $f(x) = \frac{1}{x \ln x}$