

Exercice 2:

Determiner les fonctions primitives de f par chq cas:

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

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

$$\textcircled{5} f(x) = 3x^2 (x^3 + 7)^8 \quad ; \quad \textcircled{6} f(x) = x^2 (7 + x^3)^4$$

$$\textcircled{7} f(x) = (x+1)(x^2 + 2x + 5) \quad ; \quad \textcircled{8} f(x) = 2x^2 (x^5 - 1)$$

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

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