

Exercice 2:

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Determiner les fonctions primitives de f par chq cas:

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

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

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

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

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

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