

Les fonctions primitives

الدوال الاصلية

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Exercice 1:

Determiner les fonctions primitives de f pr chq cas:

- ① $f(x) = x^2 - 3x - \sqrt{2}$; ② $f(x) = 5x^4 + 3x^2 + x$
- ③ $f(x) = 6x^3 - 5x^2 + \sqrt{2}$; ④ $f(x) = 4x^4 + 3x^3 + 2x^2 + x + 1$
- ⑤ $f(x) = \frac{1}{2\sqrt{x}} - \frac{1}{x^2} + 3$; ⑥ $f(x) = \frac{1}{x} - 2x$
- ⑦ $f(x) = e^x + x^2$; ⑧ $f(x) = \frac{1}{x-2}$
- ⑨ $f(x) = \frac{2x}{\sqrt{x^2+3}}$; ⑩ $f(x) = \frac{x}{\sqrt{x^2+3}}$
- ⑪ $f(x) = \frac{x^2}{\sqrt{x^3+1}}$; ⑫ $f(x) = \frac{1}{\sqrt{x}} + x - 1$