

Les fonctions primitivesالدوال 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  $f(x) = \frac{1}{\sqrt{x}} + x - 1$