

جدول دوال أصلية لدوال اعتيادية

الدالة f	دالة أصلية للدالة F	حيز التعريف I
$f(x) = a ; a \in \mathbb{R}$	$F(x) = ax + k ; k \in \mathbb{R}$	$I = \mathbb{R}$
$f(x) = x^n ; n \in \mathbb{N}$	$F(x) = \frac{x^{n+1}}{n+1} + k ; k \in \mathbb{R}$	$I = \mathbb{R}$
$f(x) = \frac{1}{x^2}$	$F(x) = -\frac{1}{x} + k ; k \in \mathbb{R}$	$I = \mathbb{R}^*$
$f(x) = \frac{1}{x^n} ; n \in \mathbb{N}^* - \{1\}$	$F(x) = \frac{1}{-n+1} x^{-n+1} + k ; k \in \mathbb{R}$	$I = \mathbb{R}^*$
$f(x) = \frac{1}{\sqrt{x}}$	$F(x) = 2\sqrt{x} + k ; k \in \mathbb{R}$	$I =]0; +\infty[$
$f(x) = \cos x$	$F(x) = \sin x + k ; k \in \mathbb{R}$	$I = \mathbb{R}$
$f(x) = \sin x$	$F(x) = -\cos x + k ; k \in \mathbb{R}$	$I = \mathbb{R}$
$f(x) = 1 + \tan^2 x = \frac{1}{\cos^2 x}$	$F(x) = \tan x + k ; k \in \mathbb{R}$	$I = \left\{ x \in \mathbb{R} / x \neq \frac{\pi}{2} + k\pi / k \in \mathbb{Z} \right\}$
$f(x) = \frac{u'(x)}{(u(x))^2}$	$F(x) = \frac{-1}{u(x)} + k ; k \in \mathbb{R}$	
$f(x) = \frac{u'(x)}{\sqrt{u(x)}}$	$F(x) = 2\sqrt{u(x)} + k ; k \in \mathbb{R}$	
$f(x) = \cos(ax + b) ; (a \neq 0)$	$F(x) = \frac{1}{a} \sin(ax + b) + k ; k \in \mathbb{R}$	
$f(x) = \sin(ax + b) ; (a \neq 0)$	$F(x) = -\frac{1}{a} \cos(ax + b) + k ; k \in \mathbb{R}$	
$f(x) = (u(x))^r \times u'(x) ; r \in \mathbb{Q} - \{-1\}$	$F(x) = \frac{1}{r+1} (u(x))^{r+1} + k ; k \in \mathbb{R}$	
$f(x) = u'(x)v(x) + u(x)v'(x)$	$F(x) = u(x)v(x) + k$	
$f(x) = \frac{u'(x)v(x) - u(x)v'(x)}{(v(x))^2}$	$F(x) = \frac{u(x)}{v(x)} + k$	
$f(x) = u'(ax + b) ; a \in \mathbb{R}^* ; b \in \mathbb{R}$	$F(x) = \frac{1}{a} u(ax + b) + k$	