| $\int f(x)dx$ | $f(x)$ | $f'(x)$ |
|---|---|---|
| $kx+c$ | $k$ | $0$ |
| $\frac{x^{n+1}}{n+1}+c$ | $x^n$ | $nx^{n-1}$ |
| $a\int f(x)dx+b\int g(x)dx$ | $af(x)+bg(x)$ | $af'(x)+bg'(x)$ |
| | $f(x)g(x)$ | $f(x)g'(x)+g(x)f'(x)$ |
| | $\frac{f(x)}{g(x)}$ | $\frac{f'(x)g(x)-g'(x)f(x)}{g(x)^2}$ |
| $ln\left(\lvert x\rvert\right)+c$ | $\frac{1}{x}$ | $-\frac{1}{x^2}$ |
| $\frac{x\lvert x\rvert}{2}+c$ | $\lvert x\rvert$ | $\frac{x}{\lvert x\rvert}$ |
| $\lvert x\rvert+c$ | $sgn(x)$ | $0$ |
| $\frac{a^x}{ln(a)}+c$ | $a^x$ | $a^x ln(a)$ |
| $xf^{-1}(x)-\int f(u)du$ donde $u=f^{-1}(x)$ | $f^{-1}(x)$ | $\frac{1}{f'[f^{-1}(x)]}$ |
| $\frac{xln(x)-x}{ln(a)}+c$ | $log_a(x)$ | $\frac{1}{xln(a)}$ |
| | $f\left[g\left(x\right)\right]$ | $f'\left[g\left(x\right)\right]g'\left(x\right)$ |
| $\frac{b^{ax}}{aln(b)}+c$ | $b^{ax}$ | $b^{ax}ln(b)a$ |
| | $x^x$ | $x^x\left[1+ln(x)\right]$ |
| $-cos(x)+c$ | $sen(x)$ | $cos(x)$ |
| $sen(x)+c$ | $cos(x)$ | $-sen(x)$ |
| $-ln\left[\lvert cos\left(x\right)\rvert\right]+c$ | $tan(x)$ | $sec^2(x)$ |
| $-ln\left[\lvert csc\left(x\right)+cot\left(x\right)\rvert\right]+c$ | $csc(x)$ | $-csc(x)cot(x)$ |
| $ln\left[\lvert tan\left(x\right)+sec\left(x\right)\rvert\right]+c$ | $sec(x)$ | $sec(x)tan(x)$ |
| $ln\left(\lvert sen\left(x\right)\rvert\right)+c$ | $cot(x)$ | $-csc^2(x)$ |
| $xsen^{-1}(x)+\sqrt{1-x^2}+c$ | $sen^{-1}(x)$ | $\frac{1}{\sqrt{1-x^2}}$ |
| $xcos^{-1}(x)-\sqrt{1-x^2}+c$ | $cos^{-1}(x)$ | $-\frac{1}{\sqrt{1-x^2}}$ |
| $xtan^{-1}(x)-\frac{ln\left(x^2+1\right)}{2}+c$ | $tan^{-1}(x)$ | $\frac{1}{1+x^2}$ |
| $xcsc^{-1}(x)+ln\left(\left\lvert\sqrt{x^2-1}+x\right\rvert\right)+c$ | $csc^{-1}(x)$ | $-\frac{1}{x\sqrt{x^2-1}}$ |
| $xsec^{-1}(x)-ln\left(\left\lvert\sqrt{x^2-1}+x\right\rvert\right)+c$ | $sec^{-1}(x)$ | $\frac{1}{x\sqrt{x^2-1}}$ |
| $xcot^{-1}(x)+\frac{ln\left(x^2+1\right)}{2}+c$ | $cot^{-1}(x)$ | $-\frac{1}{1+x^2}$ |
| $cosh(x)+c$ | $senh(x)$ | $cosh(x)$ |
| $\int f(x)dx$ | $f(x)$ | $f'(x)$ |

| $\int f(x)dx$ | $f(x)$ | $f'(x)$ |
|---|---|---|
| $senh(x)+c$ | $cosh(x)$ | $senh(x)$ |
| $ln\left[cosh\left(x\right)\right]+c$ | $tanh(x)$ | $senh^2(x)$ |
| $-ln\left[\left\|csch(x)+cot(x)\right\|\right]+c$ | $csch(x)$ | $-csch(x)coth(x)$ |
| $tan^{-1}\left[senh\left(x\right)\right]+c$ | $sech(x)$ | $-sech(x)tanh(x)$ |
| $ln\left[senh\left(\|x\|\right)\right]+c$ | $coth(x)$ | $-csch^2(x)$ |
| $xsinh^{-1}(x)-\sqrt{x^2+1}+c$ | $senh^{-1}(x)$ | $\frac{1}{\sqrt{1+x^2}}$ |
| $xcosh^{-1}(x)-\sqrt{x^2-1}+c$ | $cosh^{-1}(x)$ | $\frac{1}{\sqrt{x^2-1}}$ |
| $xtanh^{-1}(x)+\frac{ln(\left\|x^2-1\right\|)}{2}+c$ | $tanh^{-1}(x)$ | $\frac{1}{1-x^2}$ |
| $xcsch^{-1}(x)+ln\left(\left\|\sqrt{x^2+1}+x\right\|\right)+c$ | $csch^{-1}(x)$ | $-\frac{1}{\|x\|\sqrt{1+x^2}}$ |
| $xsech^{-1}(x)+sin^{-1}(x)+c$ | $sech^{-1}(x)$ | $-\frac{1}{x\sqrt{1-x^2}}$ |
| $xcoth^{-1}(x)+\frac{ln(\left\|x^2-1\right\|)}{2}+c$ | $coth^{-1}(x)$ | $\frac{1}{1-x^2}$ |
| $\int f(u)du$ donde $u=g(x)$ | $f\left[g\left(x\right)\right]g'\left(x\right)$ | $f'\left[g\left(x\right)\right]\left[g'\left(x\right)\right]^2+g''\left(x\right)f\left[g\left(x\right)\right]$ |
| $f(x)g(x)-\int f'(x)g(x)dx$ | $f(x)g'(x)$ | $f'(x)g'(x)+g''(x)f(x)$ |
| $\frac{1}{a}tan^{-1}(\frac{x}{a})+c$ | $\frac{1}{a^2+x^2}$ | $-\frac{2x}{\left(x^2+a^2\right)^2}$ |
| $\frac{1}{2a}ln\left(\left\|\frac{x+a}{x-a}\right\|\right)+c$ | $\frac{1}{a^2-x^2}$ | $-\frac{2x}{(a^2-x^2)^2}$ |
| $\frac{1}{2a}ln\left(\left\|\frac{x-a}{x+a}\right\|\right)+c$ | $\frac{1}{x^2-a^2}$ | $-\frac{2x}{(x^2-a^2)^2}$ |
| $\frac{ln(\|mx+h\|)}{m}+c$ | $\frac{1}{mx+h}$ | $-\frac{m}{\left(mx+h\right)^2}$ |
| $\frac{2tan^{-1}\left(\frac{2ax+b}{\sqrt{-\Delta}}\right)}{\sqrt{-\Delta}}+C$' | $\frac{1}{ax^2+bx+c}$ donde $\Delta<0$ | $-\frac{2ax+b}{\left(ax^2+bx+c\right)^2}$ |
| $\frac{tan^{-1}(x)}{2}+\frac{x}{2x^2+2}+c$ | $\frac{1}{\left(x^2+1\right)^2}$ | $-\frac{4x}{\left(x^2+1\right)^3}$ |
| $\int\left(\frac{2u}{u^2+1}\right)\left(\frac{2}{u^2+1}du\right)$ donde $u=tan\left(\frac{x}{2}\right)$ | $sen(x)$ | $\frac{2}{tan^2\left(\frac{x}{2}\right)+1}-1$ |
| $\int\left(\frac{1-u^2}{u^2+1}\right)\left(\frac{2}{u^2+1}du\right)$ donde $u=tan\left(\frac{x}{2}\right)$ | $cos(x)$ | $-\frac{2tan\left(\frac{x}{2}\right)}{tan^2\left(\frac{x}{2}\right)+1}$ |
| $\int f(x)dx$ | $f(x)$ | $f'(x)$ |