$$\int 2x\,dx = x^2 + c$$

$$\int \frac{3}{x}\,dx = 3\int \frac{1}{x}\,dx = 3\log|x| + c$$

Se $I \subset]0, +\infty[$,

$$\int \frac{3}{x}\,dx = 3\log x + c$$

$$\int \operatorname{tg} x\,dx = \int \frac{\operatorname{sen} x}{\cos x}\,dx = \int \frac{1}{\cos x} \cdot \operatorname{sen} x\,dx =$$

$$= -\int \frac{1}{\cos x} \cdot (-\operatorname{sen} x)\,dx = -\log|\cos x| + c$$

$$\int \frac{1}{\operatorname{tg} x}\,dx = \int \frac{\cos x}{\operatorname{sen} x}\,dx = \int \frac{1}{\operatorname{sen} x}\cdot \cos x\,dx = \log|\operatorname{sen} x| + c$$

$$\int \frac{1}{(1+x^2)\operatorname{arctg} x}\,dx = \int \frac{1}{\operatorname{arctg} x}\cdot\frac{1}{1+x^2}\,dx = \log|\operatorname{arctg} x| + c$$

Se $I \subset]0,+\infty[$,

$$\int \frac{1}{(1+x^2)\operatorname{arctg} x}\,dx = \log(\operatorname{arctg} x) + c$$

$$\int \frac{x}{1+x^2}\,dx = \frac{1}{2}\int \frac{2x}{1+x^2}\,dx = \frac{1}{2}\int \frac{1}{1+x^2}\cdot 2x\,dx = \frac{1}{2}\log(1+x^2) + c$$

$$\int \frac{1}{x\log x}\,dx = \int \frac{1}{\log x}\cdot\frac{1}{x}\,dx = \log|\log x| + c$$

Se $I \subset]1,+\infty[$,
$\log x > 0$
e quindi
$\ldots = \log(\log x) + c$

$$\int -\frac{2}{x^3}\,dx = -2\int x^{-3}\,dx = (-2)\cdot\frac{x^{-2}}{-2} + c = x^{-2} + c$$