

Considerando que $u : I \rightarrow \mathbb{R}$ é uma função real de variável real x derivável no intervalo I , que $a, k \in \mathbb{R}$ e que \mathcal{C} é uma constante real arbitrária tem-se

$$\int a \, dx = ax + \mathcal{C} \qquad \int u' u^k \, dx = \frac{u^{k+1}}{k+1} + \mathcal{C} \quad (k \neq -1)$$

$$\int \frac{u'}{u} \, dx = \ln |u| + \mathcal{C} \qquad \int u' a^u \ln a \, dx = a^u + \mathcal{C} \quad (a \in \mathbb{R}^+ \setminus \{1\})$$

$$\int u' e^u \, dx = e^u + \mathcal{C}$$

$$\int -u' \operatorname{sen} u \, dx = \cos u + \mathcal{C} \qquad \int u' \cos u \, dx = \operatorname{sen} u + \mathcal{C}$$

$$\int \frac{u'}{\cos^2 u} \, dx = \operatorname{tg} u + \mathcal{C} \qquad \int \frac{-u'}{\operatorname{sen}^2 u} \, dx = \operatorname{cotg} u + \mathcal{C}$$

$$\int \frac{u' \operatorname{sen} u}{\cos^2 u} \, dx = \sec u + \mathcal{C} \qquad \int \frac{-u' \cos u}{\operatorname{sen}^2 u} \, dx = \operatorname{cosec} u + \mathcal{C}$$

$$\int \frac{u'}{\cos u} \, dx = \ln \left| \frac{1}{\cos u} + \operatorname{tg} u \right| + \mathcal{C} \qquad \int \frac{u'}{\operatorname{sen} u} \, dx = \ln \left| \frac{1}{\operatorname{sen} u} - \operatorname{cotg} u \right| + \mathcal{C}$$

$$\int \frac{-u'}{\sqrt{1-u^2}} \, dx = \arccos u + \mathcal{C} \qquad \int \frac{u'}{\sqrt{1-u^2}} \, dx = \operatorname{arcsen} u + \mathcal{C}$$

$$\int \frac{u'}{1+u^2} \, dx = \operatorname{arctg} u + \mathcal{C} \qquad \int \frac{-u'}{1+u^2} \, dx = \operatorname{arccotg} u + \mathcal{C}$$

$$\int u' \operatorname{sh} u \, dx = \operatorname{ch} u + \mathcal{C} \qquad \int u' \operatorname{ch} u \, dx = \operatorname{sh} u + \mathcal{C}$$

$$\int \frac{u'}{\operatorname{ch}^2 u} \, dx = \operatorname{th} u + \mathcal{C} \qquad \int \frac{-u'}{\operatorname{sh}^2 u} \, dx = \operatorname{coth} u + \mathcal{C}$$

$$\int \frac{-u' \operatorname{sh} u}{\operatorname{ch}^2 u} \, dx = \operatorname{sech} u \qquad \int \frac{-u' \operatorname{ch} u}{\operatorname{sh}^2 u} \, dx = \operatorname{cosech} u + \mathcal{C}$$

$$\int \frac{u'}{\sqrt{u^2+1}} \, dx = \operatorname{argsh} u + \mathcal{C} \qquad \int \frac{u'}{\sqrt{u^2-1}} \, dx = \operatorname{argch} u + \mathcal{C}$$

$$\int \frac{u'}{1-u^2} \, dx = \operatorname{argth} u + \mathcal{C} \qquad \int \frac{u'}{1-u^2} \, dx = \operatorname{argcoth} u + \mathcal{C}$$