

Tabela das Principais Integrais

- $\int du = u + c.$
- $\int u^n du = \frac{u^{n+1}}{n+1} + c, n \neq -1.$
- $\int \frac{du}{u} = \ln |u| + c.$
- $\int a^u du = \frac{a^u}{\ln a} + c, a > 0, a \neq 1.$
- $\int e^u du = e^u + c.$
- $\int \operatorname{sen} u du = -\operatorname{cos} u + c.$
- $\int \operatorname{cos} u du = \operatorname{sen} u + c.$
- $\int \operatorname{tg} u du = \ln |\operatorname{sec} u| + c.$
- $\int \operatorname{cotg} u du = \ln |\operatorname{sen} u| + c.$
- $\int \operatorname{sec} u du = \ln |\operatorname{sec} u + \operatorname{tg} u| + c.$
- $\int \operatorname{cosec} u du = \ln |\operatorname{cosec} u - \operatorname{cotg} u| + c.$
- $\int \operatorname{sec} u \operatorname{tg} u du = \operatorname{sec} u + c.$
- $\int \operatorname{cosec} u \operatorname{cotg} u du = -\operatorname{cosec} u + c.$
- $\int \operatorname{sec}^2 u du = \operatorname{tg} u + c.$
- $\int \operatorname{cosec}^2 u du = -\operatorname{cotg} u + c.$
- $\int \frac{du}{u^2+a^2} = \frac{1}{a} \operatorname{arc} \operatorname{tg} \frac{u}{a} + c.$
- $\int \frac{du}{u^2-a^2} = \frac{1}{2a} \ln \left| \frac{u-a}{u+a} \right| + c, u^2 > a^2.$
- $\int \frac{du}{\sqrt{u^2+a^2}} = \ln \left| u + \sqrt{u^2+a^2} \right| + c.$
- $\int \frac{du}{\sqrt{u^2-a^2}} = \ln \left| u + \sqrt{u^2-a^2} \right| + c.$
- $\int \frac{du}{\sqrt{a^2-u^2}} = \operatorname{arc} \operatorname{sen} \frac{u}{a} + c, u^2 < a^2.$
- $\int \frac{du}{u\sqrt{u^2-a^2}} = \frac{1}{a} \operatorname{arc} \operatorname{sec} \left| \frac{u}{a} \right| + c.$