

TABELA DE INTEGRAIS

- $\int u dv = uv - \int v du$
- $\int tg^2(u) du = tg(u) - u + C$
- $\int tg(u) du = \ln|sec(u)| + C$
- $\int \frac{du}{u^2 + a^2} = \frac{1}{a} \arctg \frac{u}{a} + C$
- $\int \frac{du}{u\sqrt{u^2 - a^2}} = \frac{1}{a} sec^{-1} \frac{u}{a} + C$
- $\int \frac{du}{\sqrt{a^2 - u^2}} = \frac{1}{a} sen^{-1} \frac{u}{a} + C$
- $\int \frac{du}{u^2 - a^2} = \frac{1}{2a} \ln \left| \frac{u - a}{u + a} \right| + C$
- $\int \sqrt{a^2 + u^2} du = \frac{u}{2} \sqrt{a^2 + u^2} + \frac{a^2}{2} \ln(u + \sqrt{a^2 + u^2}) + C$
- $\int \frac{du}{\sqrt{a^2 + u^2}} = \ln(u + \sqrt{a^2 + u^2}) + C$
- $\int \frac{du}{(a^2 + u^2)^{3/2}} = \frac{u}{a^2 \sqrt{a^2 + u^2}} + C$
- $\int \frac{1}{u \ln u} = \ln|\ln u| + C$
- Frações parciais (Caso Particular)  $\frac{1}{(u - a)(u - b)} = \frac{1}{a - b} \left( \frac{1}{u - a} - \frac{1}{u - b} \right)$