

INTEGRAIS	FÓRMULAS TRIGONOMÉTRICAS
0) $\int du = u + c$	
1) $\int u^p du = \frac{u^{p+1}}{p+1} + k, p \neq -1$	$\text{sen}^2 x + \text{cos}^2 x = 1$
2) $\int \frac{du}{u} = \ln u  + k$	$\text{sec}^2 x = 1 + \text{tg}^2 x$
3) $\int e^u du = e^u + k$	$\text{cossec}^2 x = 1 + \text{cotg}^2 x$
4) $\int \text{sen}(u) du = -\text{cos}(u) + k$	$\text{cos}^2 x = \frac{1 + \text{cos}2x}{2}$
5) $\int \text{cos}(u) du = \text{sen}(u) + k$	$\text{sen}^2 x = \frac{1 - \text{cos}2x}{2}$
6) $\int \text{sec}^2(u) du = \text{tg}(u) + k$	$\text{sen}2x = 2 \text{sen}x \text{cos}x$
7) $\int \text{csc}^2(u) du = -\text{cotg}(u) + k$	$\text{cos}2x = \text{cos}^2 x - \text{sen}^2 x$
8) $\int \text{sec}(u) \text{tg}(u) du = \text{sec}(u) + k$	$\text{tg} x = \frac{\text{sen}x}{\text{cos}x}$
9) $\int \text{csc}(u) \text{cotg}(u) du = -\text{csc}(u) + k$	$\text{cotg} x = \frac{\text{cos}x}{\text{sen}x}$
10) $\int \frac{du}{\sqrt{a^2 - u^2}} = \text{arcsen}\left(\frac{u}{a}\right) + k$	$\text{sec}x = \frac{1}{\text{cos}x}$
11) $\int \frac{du}{a^2 + u^2} = \frac{1}{a} \text{arctg}\left(\frac{u}{a}\right) + k$	$\text{csc}x = \frac{1}{\text{sen}x}$
12) $\int \frac{du}{u \sqrt{u^2 - a^2}} = \frac{1}{a} \text{arcsec}\left(\frac{u}{a}\right) + k$	$\text{sen}(A \pm B) = \text{sen}A \text{cos}B \pm \text{cos}A \text{sen}B$
13) $\int \text{sec}(u) du = \ln \text{sec}(u) + \text{tg}(u)  + k$	$\text{cos}(A \pm B) = \text{cos}A \text{cos}B \mp \text{sen}A \text{sen}B$
14) $\int \text{csc}(u) du = -\ln \text{csc}(u) + \text{cotg}(u)  + k$	$\text{sen}A \text{cos}B = \frac{\text{sen}(A - B) + \text{sen}(A + B)}{2}$
15) $\int \text{sec}^3 u du = \frac{\text{sec}(u) \text{tg}(u) + \ln(\text{sec}(u) + \text{tg}(u))}{2} + k$	$\text{sen}A \text{sen}B = \frac{\text{cos}(A - B) - \text{cos}(A + B)}{2}$
16) $\int \ln(u) du = u \ln(u) - u + k$	$\text{cos}A \text{cos}B = \frac{\text{cos}(A - B) + \text{cos}(A + B)}{2}$