

### Tabela de Integrais Imediatas

- 1)  $\int dx = x + C.$
- 2)  $\int x^n dx = \frac{x^{n+1}}{n+1} + C, \text{ para } n \neq -1.$
- 3)  $\int \frac{dx}{x} = \ln |x| + C.$
- 4)  $\int a^x dx = \frac{a^x}{\ln a} + C, \text{ para } a > 0, a \neq 1.$
- 5)  $\int e^x dx = e^x + C.$
- 6)  $\int \cos x dx = \text{sen } x + C.$
- 7)  $\int \text{sen } x dx = -\cos x + C.$
- 8)  $\int \sec^2 x dx = \text{tg } x + C.$
- 9)  $\int \text{cosec}^2 x dx = -\text{cotg } x + C$
- 10)  $\int \sec x \cdot \text{tg } x dx = \sec x + C.$
- 11)  $\int \text{cosec } x \cdot \text{cotg } x dx = -\text{cotg } x + C.$
- 12)  $\int \frac{1}{1+x^2} dx = \text{arc tg } x + C.$
- 13)  $\int \frac{dx}{a^2+x^2} = \frac{1}{a} \text{arc tg } \frac{x}{a} + C.$
- 14)  $\int \frac{dx}{\sqrt{1-x^2}} dx = \text{arc sen } x + C.$
- 15)  $\int \frac{dx}{\sqrt{a^2-x^2}} = \text{arc sen } \frac{x}{a} + C.$
- 16)  $\int \frac{dx}{x\sqrt{x^2-1}} = \text{arc sec } x + C.$
- 17)  $\int \frac{dx}{\sqrt{1+x^2}} = \ln|x + \sqrt{x^2+1}| + C.$
- 18)  $\int \frac{dx}{\sqrt{x^2-1}} = \ln|x + \sqrt{x^2-1}| + C.$