Tabela de Integrais Indefinidos Imediatos

T1. $\int x^p\,dx = \frac{x^{p+1}}{p+1} + C\,, \quad C \in \mathbb{R}\,, \quad p \in \mathbb{R} \setminus \{-1\}$

T2. $\int \frac{1}{x}\,dx = \ln|x| + C\,, \quad C \in \mathbb{R}\,, \quad (\text{ onde } x \in \mathbb{R}^+ \text{ou } x \in \mathbb{R}^-)$

T3. $\int e^x\,dx = e^x + C\,, \quad C \in \mathbb{R}$

T4. $\int a^x\,dx = \frac{a^x}{\ln a} + C\,, \quad C \in \mathbb{R}, \quad a \in \mathbb{R}^+ \setminus \{1\}$

T5. $\int \operatorname{sen} x\,dx = -\cos x + C\,, \quad C \in \mathbb{R}$

T6. $\int \cos x\,dx = \operatorname{sen} x + C\,, \quad C \in \mathbb{R}$

T7. $\int \sec^2 x\,dx = \operatorname{tg} x + C\,, \quad C \in \mathbb{R}$

T8. $\int \operatorname{cosec}^2 x\,dx = -\operatorname{cotg} x + C\,, \quad C \in \mathbb{R}$

T9. $\int \frac{1}{\sqrt{1-x^2}}\,dx = \operatorname{arcsen} x + C\,, \quad C \in \mathbb{R}$

T10. $\int \frac{1}{1+x^2}\,dx = \operatorname{arctg} x + C\,, \quad C \in \mathbb{R}$

T11. $\int \sec x\ \operatorname{tg} x\,dx = \sec x + C\,, \quad C \in \mathbb{R}$

T12. $\int \operatorname{cosec} x\ \operatorname{cotg} x\,dx = -\operatorname{cosec} x + C\,, \quad C \in \mathbb{R}$

Lista de Integrais Indefinidos Quase Imediatos

G1. $\int g'(x)g^p(x)\,dx = \frac{g^{p+1}(x)}{p+1} + C\,, \quad C \in \mathbb{R}\ (\text{ onde } p \in \mathbb{R} \setminus \{-1\})$

G2. $\int \frac{g'(x)}{g(x)}\,dx = \ln|g(x)| + C\,, \quad C \in \mathbb{R}$

G3. $\int g'(x)e^{g(x)}\,dx = e^{g(x)} + C\,, \quad C \in \mathbb{R}$

G4. $\int g'(x)a^{g(x)}\,dx = \frac{a^{g(x)}}{\ln a} + C\,, \quad C \in \mathbb{R}, \quad a \in \mathbb{R}^+ \setminus \{1\}$

G5. $\int g'(x)\operatorname{sen}(g(x))\,dx = -\cos(g(x)) + C\,, \quad C \in \mathbb{R}$

G6. $\int g'(x)\cos(g(x))\,dx = \operatorname{sen}(g(x)) + C\,, \quad C \in \mathbb{R}$

G7. $\int g'(x)\sec^2(g(x))\,dx = \operatorname{tg}(g(x)) + C\,, \quad C \in \mathbb{R}$

G8. $\int g'(x)\operatorname{cosec}^2(g(x))\,dx = -\operatorname{cotg}(g(x)) + C\,, \quad C \in \mathbb{R}$

G9. $\int \frac{g'(x)}{\sqrt{1-(g(x))^2}}\,dx = \operatorname{arcsen}(g(x)) + C\,, \quad C \in \mathbb{R}$

G10. $\int \frac{g'(x)}{1+(g(x))^2}\,dx = \operatorname{arctg}(g(x)) + C\,, \quad C \in \mathbb{R}$

G11. $\int g'(x)\sec(g(x))\ \operatorname{tg}(g(x))\,dx = \sec(g(x)) + C\,, \quad C \in \mathbb{R}$

G12. $\int g'(x)\operatorname{cosec}(g(x))\ \operatorname{cotg}(g(x))\,dx = -\operatorname{cosec}(g(x)) + C\,, \quad C \in \mathbb{R}$