TABLA I. CÁCULO DE PRIMITIVAS DE FORMA DIRECTA

1. $$\int f'(x) \cdot \left[f(x) \right]^{n} dx = \frac{\left[f(x) \right]^{(n+1)}}{(n+1)} + C \quad \text{con } n \neq -1$$

2. $$\int \frac{f'(x)}{f(x)} dx = \ln |f(x)| + C$$

3. $$\int f'(x) \cdot e^{f(x)} dx = e^{x} + c$$

4. $$\int f'(x) \cdot \operatorname{sen}(f(x))\, dx = -\cos(f(x)) + C$$

5. $$\int f'(x) \cdot \cos(f(x))\, dx = \operatorname{sen}(f(x)) + c$$

6. $$\int f'(x) \cdot \left[1 + \operatorname{tg}^{2}(f(x)) \right] dx = \operatorname{tg}(f(x)) + c$$

$$\int \frac{f'(x)}{\cos^{2}(f(x))} dx = \int f'(x) \cdot \sec^{2}(f(x))\, dx = \operatorname{tg}(f(x)) + c$$

7. $$\int -f'(x) \cdot \left[1 + \operatorname{cotg}^{2}(f(x)) \right] dx = \operatorname{cotg}(f(x)) + C$$

$$\int \frac{-f'(x)}{\operatorname{sen}^{2}(f(x))} dx = \int -f'(x) \cdot \operatorname{cosec}^{2}(f(x))\, dx = \operatorname{cotg}(f(x)) + c$$

(lo mismo de otra forma)

$$\int f'(x) \cdot \left[1 + \operatorname{cotg}^{2}(f(x)) \right] dx = -\operatorname{cotg}(f(x)) + C$$

$$\int \frac{f'(x)}{\operatorname{sen}^{2}(f(x))} dx = \int f'(x) \cdot \operatorname{cosec}^{2}(f(x))\, dx = -\operatorname{cotg}(f(x)) + c$$

8. $$\int f'(x) \cdot \operatorname{senh}(f(x))\, dx = \cosh(f(x)) + C$$

9. $$\int f'(x) \cdot \cosh(f(x))\, dx = \operatorname{senh}(f(x)) + c$$

TABLA II. CÁCULO DE PRIMITIVAS DE FORMA DIRECTA (TIPO ARCO)

1. $$\int \frac{f'(x)}{\sqrt{1-[f(x)]^2}}\,dx = \operatorname{arcsen}(f(x)) + C$$

2. $$\int \frac{-f'(x)}{\sqrt{1-[f(x)]^2}}\,dx = \operatorname{arccosen}(f(x)) + C$$

3. $$\int \frac{f'(x)}{1+[f(x)]^2}\,dx = \operatorname{arctg}(f(x)) + C$$

4. $$\int \frac{f'(x)}{\sqrt{1+[f(x)]^2}}\,dx = \operatorname{argsenh}(f(x)) + C = \ln\left| f(x) + \sqrt{[f(x)]^2+1}\right| + C$$

5. $$\int \frac{f'(x)}{\pm\sqrt{[f(x)]^2-1}}\,dx = \operatorname{arg\,cosh}(f(x)) + C = \ln\left| f(x) \pm \sqrt{[f(x)]^2-1}\right|$$

6. $$\int \frac{f'(x)}{1-[f(x)]^2}\,dx = \operatorname{arg\,tgh}(f(x)) + C$$