

$$0. \quad \int 1 \, dt = \int dt = t + C$$

$$1. \quad \int t^n \, dt = \frac{t^{n+1}}{n+1} + C, \text{ si } n \neq -1$$

$$2. \quad \int \frac{1}{2\sqrt{t}} \, dt = \sqrt{t} + C$$

$$3. \quad \int e^t \, dt = e^t + C$$

$$4. \quad \int \frac{1}{t} \, dt = \ln|t| + C$$

$$5. \quad \int \cos(t) \, dt = \sin(t) + C$$

$$6. \quad \int \sin(t) \, dt = -\cos(t) + C$$

$$7. \quad \left\{ \begin{array}{l} \int \frac{1}{\cos^2(t)} \, dt = \tan(t) + C \\ \int (1 + [\tan(t)]^2) \, dt = \tan(t) + C \end{array} \right.$$

$$8. \quad \int \frac{1}{\sqrt{1-t^2}} \, dt = \arcsin(t) + C$$

$$9. \quad \int \frac{1}{1+t^2} \, dt = \arctan(t) + C$$



$$1. \int [f(t)]^n f'(t) dt = \frac{[f(t)]^{n+1}}{n+1} + C, \text{ si } n \neq -1$$

$$2. \int \frac{1}{2\sqrt{f(t)}} f'(t) dt = \int \frac{f'(t)}{2\sqrt{f(t)}} dt = \sqrt{f(t)} + C$$

$$3. \int e^{f(t)} f'(t) dt = e^{f(t)} + C$$

$$4. \int \frac{1}{f(t)} f'(t) dt = \int \frac{f'(t)}{f(t)} dt = \ln(|f(t)|) + C$$

$$5. \int \cos(f(t)) f'(t) dt = \sin(f(t)) + C$$

$$6. \int \sin(f(t)) f'(t) dt = -\cos(f(t)) + C$$

$$7. \begin{cases} \int \frac{1}{\cos^2(f(t))} f'(t) dt = \int \frac{f'(t)}{\cos^2(f(t))} dt = \tan(f(t)) + C \\ \int (1 + [\tan(f(t))]^2) f'(t) dt = \tan(f(t)) + C \end{cases}$$

$$8. \int \frac{1}{\sqrt{1 - [f(t)]^2}} f'(t) dt = \int \frac{f'(t)}{\sqrt{1 - [f(t)]^2}} dt = \arcsen(t) + C$$

$$9. \int \frac{1}{1 + [f(t)]^2} f'(t) dt = \int \frac{f'(t)}{1 + [f(t)]^2} dt = \arctan(t) + C$$

