## 1 Formules des primitives

C désigne une constante arbitraire. Les intervalles sont à préciser.

$$\int e^{at} dt = \frac{e^{at}}{a} + C \quad (\alpha \in \mathbb{C}^*)$$

$$\int t^a dt = \frac{t^{a+1}}{a+1} + C \quad (\alpha \neq -1)$$

$$\int \frac{dt}{1+t^2} = \arctan t + C$$

$$\int \frac{dt}{\sqrt{1-t^2}} = \arcsin t + C$$

$$\int \cot t dt = \sin t + C$$

$$\int \cot t dt = -\cos t + C$$

$$\int \frac{dt}{\cos^2 t} = \tan t + C$$

$$\int \frac{dt}{\sin^2 t} = -\cot t + C$$

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$$\int \frac{dt}{\sin^2 t} = \ln \left| \tan \left( \frac{t}{2} + \frac{\pi}{4} \right) \right| + C$$

$$\int \cot t dt = \ln |\sin t| + C$$

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