Integration Table

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$$\int 1 \, dx = x + C \tag{1}$$

$$\int (x^r) \, dx = \frac{x^{(r+1)}}{(r+1)} + C \tag{2}$$

$$\int \cos(x) \, dx = \sin(x) + C \tag{3}$$

$$\int \sin(x) \, dx = -\cos(x) + C \tag{4}$$

$$\int \sec^2(x) \, dx = \tan(x) + C \tag{5}$$

$$\int \csc^2(x) \, dx = -\cot(x) + C \tag{6}$$

$$\int \sec(x)\tan(x) \, dx = \sec(x) + C \tag{7}$$

$$\int \csc(x)\cot(x) \, dx = -\csc(x) + C \tag{8}$$