Standard integrals

$$\int x^n \ dx = \frac{x^{n+1}}{n+1} + C \text{ if } n \neq -1, \text{ reverse power rule}$$

$$\int \frac{dx}{x} = \ln|x| + C$$

$$\int \sin x \ dx = -\cos x + C$$

$$\int \cos x \ dx = \sin x + C$$

$$\int \tan x \ dx = \ln|\sec x| + C$$

$$\int \sec^2 x \ dx = \tan x + C$$

$$\int \sec x \tan x \ dx = \sec x + C$$

$$\int e^x \ dx = e^x + C$$