

* Integration Rules:

- $\int 0 dx = C$
- $\int k dx = kx + C$
- $\int kf(x) dx = k \int f(x) dx$
- $\int [f(x) \pm g(x)] dx = \int f(x) dx \pm \int g(x) dx$
- $\int x^n dx = \frac{x^{n+1}}{n+1} + C, n \neq -1$
- $\int x^{-1} dx = \int \frac{1}{x} dx = \ln|x| + C$
- $\int e^x dx = e^x + C$
- $\int b^x dx = \frac{b^x}{\ln b} + C$