

Definite Integrals

Integrate the following w.r.t. x

$$\int_0^2 x^3 dx$$

$$\int_{\frac{\pi}{6}}^{\frac{\pi}{2}} \sqrt{3} \sin(x) dx$$

$$\int_{-1}^1 6x^2 dx$$

$$\int_0^{\frac{\pi}{3}} \sec(x) \tan(x) dx$$

$$\int_0^3 e^{2x} dx$$

$$\int_2^3 5x^4 dx$$

$$\int_0^{\frac{\pi}{2}} \sin(2x) dx$$

$$\int_0^{\frac{\pi}{2}} \frac{2}{\csc(x)} dx$$

$$\int_3^4 \frac{2}{x} dx$$

$$\int_{\frac{\pi}{4}}^{\frac{\pi}{2}} \cos(2x) dx$$