

# Integrals

## Simple integrals

$$\int x^2 \, dx$$

$$\int_0^\infty x^2 \, dx$$

$$\int_0^\infty x^2 \, dx$$

$$\oint x^2 \, dx$$

## Double integrals

$$\iint x^2 \, dx$$

$$\int \int x^2 \, dx$$

$$\int_0^4 \int_1^3 x^2 \, dx$$

## Triple integrals

$$\iiint x^2 \, dx$$

$$\int_{x=0}^{x=5} \int_{y=0}^{y=4} \int_{z=1}^{z=3} x^2 + y - z \, dx$$

$$\int_{x=0}^{x=5} \int_{y=0}^{y=4} \int_{z=1}^{z=3} x^2 + y - z \, dx$$