Integrals, Sums and Limits

Overleaf

1 Integrals

Integral inside text.

The same integral on display:

$$\int_a^b x^2 \, dx$$

and multiple integrals:

$$\iint_V \mu(u,v) \, du \, dv$$

$$\iiint_V \mu(u,v,w) \, du \, dv \, dw$$

$$\iiiint_V \mu(t,u,v,w) \, dt \, du \, dv \, dw$$

$$\int \cdots \int_V \mu(u_1,\ldots,u_k) \, du_1 \ldots du_k$$

$$\oint_V f(s) \, ds$$

2 Sums and products

Sum $\sum_{n=1}^{\infty} 2^{-n} = 1$ inside text.
The same sum on display:

$$\sum_{n=1}^{\infty} 2^{-n} = 1$$

Product $\prod_{i=a}^{b} f(i)$ inside text.
The same product on display:

$$\prod_{i=a}^{b} f(i)$$

3 Limits

Limit $\lim_{x \to \infty} f(x)$ inside text.
The same limit on display:

$$\lim_{x \to \infty} f(x)$$