1 Some Formulae and Expressions

$$y = x^2 \tag{1}$$

$$\int_0^1 f_i(x) g_i(x) \, \mathrm{d}x \tag{2}$$

$$\sqrt[n]{\frac{x^n - y^n}{1 + u^{2n}}} \tag{3}$$

$$\cos^2 \theta + \sin^2 \theta = 1 \tag{4}$$