Definition 2.1 (Excellent number)

Let *n* be positive integer. The number *n* is said to be *excellent*, if the last digit of the number α defined by the relation

$$\alpha = n^2 + \int_0^{2\pi} \sin x \mathrm{d}x$$









Theorem 2.4

Let f(x) be integrable in the sense of Riemann on [a, b]. Let F(x) be a function continuous on [a, b] which is an antiderivative of the function f on the interval (a, b). Then

$$\int_a^b f(x) \mathrm{d}x = [F(x)]_a^b = F(b) - F(a)$$





(2)



