

# Download Definite Integral Reduction Formula

In mathematics, an integral assigns numbers to functions in a way that can describe displacement, area, volume, and other concepts that arise by combining infinitesimal data. The Gaussian integral, also known as the Euler–Poisson integral, is the integral of the Gaussian function  $e^{-x^2}$  over the entire real line. It is named after the German mathematician Carl Friedrich Gauss. In this section we'll take a look at one of the main applications of definite integrals in this chapter. We will determine the area of the region bounded by two curves. Section 7-5 : Proof of Various Integral Properties. In this section we've got the proof of several of the properties we saw in the Integrals Chapter as well as a couple from the Applications of Integrals Chapter.