Download Standard Definite Integrals

In mathematics, the definite integral: is the area of the region in the xy-plane bounded by the graph of f, the x-axis, and the lines x = a and x = b, such that area above the x-axis adds to the total, and that below the x-axis subtracts from the total.Integrals with Logarithms Z lnaxdx xax (42) Z lnax x dx= 1 2 (lnax)2 (43) Z ln(ax+ b)dx= x+ a ln(ax+ b) x;a6= 0 (44) Z ln(x2 + a2) dx = xln(x + a) + 2atan 1 x a 2x (45) x2 a) dx =) + ln x+ a x a 2 (46) ln ax +bx c dx a 4ac b2 tan 1 2ax+ b p 4ac b2 2x+ b 2a + ln ax2 +bx c (47) Z xln(ax+ b)dx= bx 2a 1 4 x2 + 1 2 x2 b2 a2 ln(ax+ b) (48) Z xln a2 b2x2 dx= 1 2 x2+ 1 2 x2 a2 b2 ln a2 b2x2 (49) Integrals with Exponentials ZDefinite Integral. A Definite Integral has start and end values: in other words there is an interval [a, b]. a and b (called limits, bounds or boundaries) are put at the bottom and top of the "S", like this: We find the Definite Integral by calculating the Indefinite Integral at a, and b, then subtracting:Definite integrals definitions and formulas involving definite integrals, Standard Definite Integrals.

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