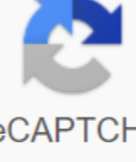


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Формула сокращения рассматривается как метод интеграции. Интеграция по формуле сокращения помогает решить многочлены элементарных функций, полиномиалов произвольной степени, продуктов трансцендентных функций и функций, которые не могут быть легко интегрированы, таким образом, облегчая процесс интеграции и ее проблемы. Формулы для сокращения интеграции Формула сокращения может быть применена к различным функциям, включая тригонометрические функции, экспоненциальные функции, логаритмические функции и т.д. Here, the formula for reduction is divided into 4 types: For exponential functions For trigonometric functions For inverse trigonometric functions For hyperbolic trigonometric functions For algebraic functions Reduction Formula for Exponential Functions  $\int x^n \text{emx} dx = \left[ \frac{1}{m} x^{n+1} \text{emx} - \frac{n}{m} \int x^n \text{emx} dx \right] + C$ ,  $n \neq -1$  Reduction Formula for Hyperbolic Trigonometric Functions  $\int \sinh x dx = -\frac{1}{n} \sinh^{n-1} x \cosh x - \frac{(n-1)}{n} \int \sinh^{n-2} x \cosh x dx$ ,  $n \neq 1$  Reduction Formula for Inverse Trigonometric Functions  $\int \arcsin x dx = \frac{x \sqrt{1-x^2}}{2} + \frac{1}{2} \arcsin x$ ,  $x \in [-1, 1]$  Use:  $\int \tan(u) du = -\ln |\cos u| + C$  Reduction Formula for Algebraic Functions  $\int x^m (ax^2 + bx + c)^n dx$ ,  $n \in \mathbb{Z}$  Features:  $(x, x)$  (hun) (hun) (hun) (hun) Singh  $x$  (Kosh,  $x$ ) (Text sech $x$ ) (text csch $x$ ) (Sin  $x$ ) (cos  $x$ , (tan  $x$ , )) ) Argument (independent variable):  $(x)$  Natural numbers:  $(n), (m)$  we can use reduction formulas. These formulas allow us to reduce the degree of integral and calculate the integrals in the final number of steps. Below are the integral reduction formulas that include the most common features. (big inormalyze) (large frak{1} iormalyse) (-) (large frak{-n}ormalise) (large irmalysized (hyun - 1) (large and invulnerable) dx) (- big frak ge-mx (left) (n - 1) (right) (big frak-muns - 1' ormalize) (large) irmalizes (large frac)s-e-mx (n e 1.) (Big frak{1}'ormalize'sinh (big frak n - 1'ormalize) (large) irmalize (Big and invulnerable) (- big frak xleft (n - 1) (right) big frac on - 2'n - 1'ormalize (large frak-dx) (n - 1) (Great inormalyze) (Big frak{1}'ormalize'sinh x', 'cosh^n - 1'x)) (-); Big Fracon - 1'n'intormalize (big frac'dx'cosh) n'ormalize) (- big frac'rasinh x' left (n - 1) (right) Big Fracon - 2'n - 1'2 inormalize) (n e 1.) synhax, kosh-x', he dx (big frac-sinh^n, 1x', cosh^m - 1'x'n big frac m - 1 x i'm-ingormalize (sinh n he, koshm - 2'x,dx)) (large frac{s{1}n - 1'ormalize) (large) (Big and lrmalize) (Big and lrmalze{1}) Big lrmalysis (Cote-n-2'x,dx) ('n e 1.) 'stmalize', 'ormalize) 'broad-f'rac-n - 2'n '1' intormalize' texts '2'x,dx', '(n e 1.) ('wide' intormalize -- 'sin^n'x,dx' (- (--large-f'rac{1}'ormalize'-sin -n -n -n -1-x-cos x 'broad-f'rac n ' n'intormalize' 'sin^n '2'x,dx' ('большой'intormalize' 'большой 'frac'n'sin^n x-ormalize) - ('большой-frac-cos x-left (n -1-право)-sin-n -1-x-ormalize) 'broad-f'rac-n - 2'n '1' 'broad'frac's 'sin^n '2'0malize', ) 'широкий', 's-ormalize', 'cos^n'x,dx- (большой ф'рак{1}'ormalize','n'sin x', 'cos^n ' 'широкий-frac{n - 1' n'intormalize' 'cos^n -2'2,dx'-(широко-инормализовать 'большой ф'рак ормаллиз) (широкий , 'frac'sin x-left' large'frac-n - 2'n' intormalize' 'broad'frac'n - 2'n' 2'x'ormalize', ) ('n'large'smalize' 'sin^n'x','s's', 'dx') ('пирокие frac'n'sin -n -1-x,'s-cos'm' 'broad-f'rac-m - 1'n'm's' inormalize' 'sin^n'x', 'cos' '2'x', dx' ('пирокие intor) malsize 'tan^n', dx') (-мол\_Jom\_ф'рак{1}' n' 'ormalize' 'tan^1'x') 'пироким-intormalize' 'tan^n'2'x',dx', (no e 1.) ""'intormalize' X)----, 'пироким-f'rac{1}-n-1'ormalize' -n-1-x-) '-intormalize' - 2'x', dx', 'n e 1.' 's-s-cyJom' x.,dx) (мол\_Jom-f'rac-sec-n - 2-x-tan x-n -1-ormalize) 'large'frac-n - 2'n' intormalize' 'dry', dx', ) ('no e 1.) ('large-inturmmals' 's.'s 'sing-n',dx') ('large-f'rac-n '2'x'cot x' n' 'ormalize) 'broad-f'rac-n - 2'n' intormalize' 's '2'x', dx', ) ('000000000-f'rac'n '1'n'm'n'n'ormalis' 'broad'frac'm'n '1' intormalize' 'x'n'1'n'm' -1'x',dx') ('пироким') 'пироким', 'frack', 'frac' 'ormalize', dx') (- (--пироким-f'rac'n '1'm'left) 'broad'frac'n '1' 'пирокие-f'rac-m '1' x'n'ormalize' dx', ('het e 1.) ('000(x) 'n'n' n'large-intromalze) ('x-1-) ('x-broad-intormalize' -, '1'n'cosh x) 'broad'intormalize' 'x'n '1'cosh x',dx') ('large'intormalize' ,dx) hson - 1'sydh x,dx) (big irmalze (x'n'sin x'sin x,dx)) n'large'normalize (x'n - 1'cos x',dx) (Big intormalize) n'large'normalize (x'n - 1' sin x',dx) (Big) (Big) intormalize big frac{1}on 1 intramasize (bigfrac'x'n, 1) big lrmalis (x'n'arccos x',dx) (large fracas x x x 1); big frak{1}on 1 inmalize (bigfrac'x'n, 1) big inrmalysis (x'n'arctan x',dx) (large fracas x x x x 1); big frak{1}on 1 intramasize (bigfrac'x'n 1) frac, henzehechecheniz (big frakh'h-ismiziz - big frac-bent frac d a'n (b/b/b/(big) (large) (frak-dx) on the left (ax^2) B) (Big fracas - 2ax - b) left (n - 1) (right) (b-2) - 4ac (right) left (ax^2) , n - 1'ormalize) (-); (big frak) 2 (2n - 3) (right) left (n - 1) (right) (b^2) - 4ac (right) (frak-dx) left (a-x-2) (n e 1.) large -int (frak-dx) left (x^2) 2' left (n - 1) (right) Frak 2n - 3z left (n - 1) (right) (x^2) (a^2) (right) Left (x^2) - (a-2) (right) (right) ((big) left (----- ----n - n 1ight) 2 left (x^2) - a^2 (right) - 1'ormalize )); Big talizn - 3 2 on the left (n - 1) (right) (left) (x^2) (n e 1.) 1.

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