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the formula (23) on page 72. 18. Trigonometry integrals 88 2 sec x dx tan x s f no zlt;3'gt; example 12: Integration 3 sec x dx Solution: All ones of the powers of the secant and the coscella can only be integrated by a method called partial integration, which will be considered in the next chapter (example 4, p. 107). It therefore has yet to be integrated until the issue of partial integration in the next chapter is considered. Illustration 13: Integration 4 sec x dx Solution: By square technique, it is counted into a square secant by square secant. Just as it took the sinus to the fourth and tangent to the fourth, only the first square factor had to be replaced by its equivalent of two terms: 4 2 2 sec x dx sec x sec x dx f f () 2 2 1 tan x sec x dx - f 2 2 tanning x x dx x dx s no f f For the first integral enough to make a variable change u s so x, from where du s sec2 x; The second integral is already a direct formula: 2 2 u du sec x dx s f f 3 3 x c and 19. Integral trigonometry 89 4 31 sec x dx tan x tan x x q f b) The technique of transferring everything to the breast and/or cosseses: It consists of passing or writing all trigonometric functions in terms of breasts and/or cossen, from what all functions они имеют эквивалент в груди и / или cosses, так как они x так x x x s кровать x сен x сек x x x 1 csc x сен x . . After writing everything in terms of sinus and/or cosine, the technique of squares is simplified and re-applied if as a result the integrals are not yet ready for integration. Illustration 14: 2 sen x crib x dx sec x f Solution: Transfer all breasts and/or cosine: 2 2 1 cos x сен x cot x сен x sec x cos x cos x f f 20. Trigonometry integrals 90 2 sen x cos x x dx sen x s f 2 sen x dx s f This integral is in the form specified in subparagraph (d), sub-synchronization (ii), pages 78/79, so with variable change it can be integrated. Действительно, делая u s cos x, откуда du ' - sen x dx () () 2 cos x сен x dx ' f 3 2 3 u u du c ' s - f 2 31 3 сен x cot x dx x c sec x x s f s 15: Integrate dx 2 2 2 так x кровать x сен x сек x csc x f Решение: Передача все груди и / или cosine: 2 2 2 1 1 сен x x cos x x сен x cos x сен x x сен x cos x cos x cot x сен x dx dx sec x сен x сен x сен x f () () x () () x () () f f 21. Тригонометрические интегралы 91 2 2 сен x cos x сен x сен x сен x dx x сен x s f 3 3 сен x cos x dx s f Этот интеграл соответствует тому, что указано в подпункте (d), субинсисо (i), стр. 78, тригонометрическая формула (14) должна быть использована в которой, путем очистки, вы получите, что , 1 2 2 сен x x сен x так 3 3 3 1 2 2 сен x x сен x сен x f () x () () поэтому, 3 3 3 1 2 2 сен x x dx сен x dx f () x () () f f 31 2 8 сен x DX S f Чтобы увидеть детали того, как этот интегральный является решена , см. пример 4 на странице 80: 21 2 2 8 сен x сен x dx s f () 21 2 1 2 8 сен x cos x dx s f 21 1 2 2 2 8 сен x dx сен x cos x x f f dx. Trigonometry integrals 92 For the first integral must make a change to the variable u x 2x, from where du x x 2 dx. Па-ра-ла-сегунда интегральный haser V и cos 2x, де Донде дв - 2 сен 2x dx : () 21 1 1 1 2 2 2 2 2 2 8 8 2 сен x dx cos x сен x dx f () f f f f f f f f f f сен-у-ду-ду-2 dv 21 1 16 16 senu du v dv f f 3 1 1 2 16 16 3 v cos x c f () й й () () й й й й 2 2 3 2 1 2 2 16 48 зарар x Кожс кровать x сен x dx x кос x сек x сек x x f c) Такника-де-лос-биномиос коньюгадос: Куандо ан-эль-деноминадор апарес uno de los binomios коньюгадос que se mencionan en la siguiente tabla, the numerator and denominator are multiplied by its conjugation to get in the denominator its equivalent of the term squared. This method is based on the fact that of three trigonometry formulas called pythagothria or squares (see formula (1), (2) and (3) on page 76), by cleaning either which appear on the left side of the equal sign, you get the difference of squares that can be accounted for in two conjugated binomials. 23 years old. Trigonometry Integral 93 The following table shows what is stated in the previous paragraph: Pythagone Formula: 2 possible clearings: (square difference) Binomios conjugated sen2 A and cos 2 A x 1 sen2 A s 1 - cos 2 A S (1 - cos A) (1 - co A) (b1) cos 2 a s 1 - sen 2 A s (1 - sen A) (1 Sep A) (b2) tan2 A - 1 sec 2 A tan2 A s sec 2 A - 1 (sec A - 1)) (sec A - 1) (b3) 1 sec 2 A - tan2 A' (sec A - tan A) (sec A and tan A) (b4) cot 2 A and 1 s csc 2 A cot 2 A s csc 2 A - 1' (csc A - 1) (csc A - 1) (b5) 1 ' csc 2 A - cot 2 A' (csc A - cot A) (csc A and cot A) (b6) The idea behind this method is that that the numerator can be divided in each of their terms between the whole denominator; however, denominators cannot be par-dashers. Thus, it is a question of having one term appear in the denominator and in number two or more, in order to divide the faction by the corresponding amount. Once the numerator and denominator have been multiplied by the conjugation of the denominator of the binomial, the product of the denominator will give the difference of the squares corresponding to the table above, read from right to left, equivalent to the trigonometry function of the curd. The technique (1) squares or technique (2) converts everything into se- nos and/or sess reused. Illustration 16: Integration 2 1 2 tan x dx cos x f 24. Trigonometry Integral 94 Solution: The denominator has two terms, but thus cannot be divided into two factions. However, this denominator is one of the conjugated binomials (b1) of the front table. This suggests that the numerator and denominator should multiply on its con-gado binomial, i.e. on (1st cos 2x). Создание его похожим: () () 2 1 22 1 2 1 2 2 2 зарара x dx tan x dx cos x cos x cos x s s s f f () 2 2 2 2 2 тан x cos x dx cos x x s f () 2 2 2 2 2 2 зарара x зарар x cos x dx сен x s f В это время числитель уже имеет два термина, так что вы уже можете начать в су-ма из двух фракций: 2 2 2 2 зарара x dx tan x x dx сен x сен x s f f Как только интеграл делится в сумме двух, применяет критерий передачи всего к груди и/или шшитым ва-иным, замеченным на странице 89 : 2 2 2 2 2 сен x dx x cos x dx x dx x сен x x сен x x сен x f f 2 dx сен x cos x cos x сен x s s s f f For the first integral, sub-inc (i), on page 78. 25. Trigonometry integrals 95 The Second Integral is equal to the ssecant, because, so 1 csc A sen A s 2 1 2 dx csc x dx сен x s f f 2 4 2 csc x dx csc x dx s s s f f () 1 1 2 2 2 csc x dsc x dsc x dx f () x no () () f f f 1 2 2 2 2 2 2 2 2 csc u dx v dv' no f f () () 1 1 2 2 ln csc cot u ln cscv cot v c ' q () () 2 1 1 4 4 2 2 2 2 f тан x dx ln csc x cot x csc x cot x csc x c. Интегралы тригонометрикас 96 EJERCICIO 26 Realizar las siguientes интегралы: 1) 2() 4 7 2sen x dx-f 3 9cos x d x f 3) 4(5 9 11cos x dx-f () 3 7 8tan x dx-f 5) 6)5 12 x dx f 4 13sec x dx f 7) 8() 2 6 17sec x dx-f 4 9csc x dx f 9) 10)3 5 5sen x кровать x dx f 3 2 9 9tan x csc x dx f 11) 12)8 8 8tan x сен x детская кровать x dx f 3 3 3tan x cot x sec x csc x dx f 13) 14) 1 5 dx сен x f 9 9 cos x dx sec x tan x f 15) 16) 4 4 4 зарара x dx csc x cot x f 10 10 cos x dx sec x tan x f 17) 18) 8 1 8 cos x dx cos x f 2 6 6 dx csc x f x f integrales trigonometricas formulas pdf. formulas de integrales de funciones trigonometricas. formulas basicas de integrales trigonometricas. integrales trigonometricas inversas formulas. formulas para integrales funciones trigonometricas. formulas de reduccion integrales trigonometricas. formulas de las integrales trigonometricas. formulas de integrales trigonometricas directas

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