

Example 1 – Integration with Inverse Trigonometric Functions

a.
$$\int \frac{dx}{\sqrt{4-x^2}} = \arcsin \frac{x}{2} + C$$

b.
$$\int \frac{dx}{2+9x^2} = \frac{1}{3} \int \frac{3 dx}{(\sqrt{2})^2 + (3x)^2}$$

$$= \frac{1}{3\sqrt{2}} \arctan \frac{3x}{\sqrt{2}} + C$$

$u = 3x, a = \sqrt{2}$

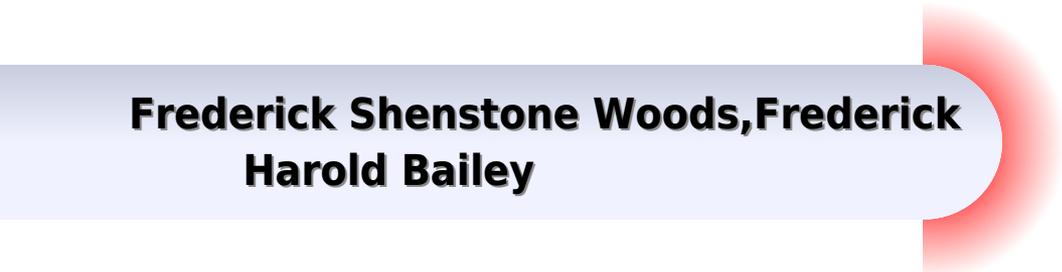
c.
$$\int \frac{dx}{x\sqrt{4x^2-9}} = \int \frac{2 dx}{2x\sqrt{(2x)^2-3^2}}$$

$$= \frac{1}{3} \operatorname{arcsec} \frac{|2x|}{3} + C$$

$u = 2x, a = 3$

5 8 Inverse Trigonometric Functions Integration

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Experts, 2019-09-02 *A Course in Mathematics: Integral calculus, functions of several variables, space geometry, differential equations* Frederick Shenstone Woods, Frederick Harold Bailey, 1909 Edexcel A Level Further Mathematics Year 2 Ben Sparks, Claire Baldwin, 2018-04-23 Exam Board Edexcel Level AS A level Subject Mathematics First Teaching September 2017 First Exam June 2019 Endorsed for Edexcel Build your students confidence in applying mathematical techniques to solving problems with resources developed with leading Assessment Consultant Keith Pledger and Mathematics in Education and Industry MEI Build reasoning and problem solving skills with practice questions and well structured exercises that build skills and mathematical techniques Develop a fuller understanding of mathematical concepts with real world examples that help build connections between topics and develop mathematical modelling skills Address misconceptions and develop problem solving with annotated worked examples Supports students at every stage of their learning with graduated exercises that build understanding and measure progress Provide clear paths of progression that combine pure and applied maths into a coherent whole Reinforce Year 1 content with short review chapters Year 2 only

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Summer Term Iowa State Teachers College, University of Northern Iowa, 1902 **A Treatise on the Differential Calculus Founded on the Method of Rates** William Woolsey Johnson, 1904 **The Americana** Frederick Converse Beach, George Edwin Rines, 1912 *Summer School* University of New Hampshire, 1923 *Calculus and Analytic Geometry: Functions of one variable and analytic geometry* George Brinton Thomas (Jr.), 1960 *Calculus and Analytic Geometry* Philip Gillett, 1988 **Differential and Integral Calculus** George Abbott Osborne, 1907 **Chapter C: The least upper bound axiom, and Chapter D: The definite integral** Mathematical Association of America. Committee on Educational Media, 1965

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