Find the tangent of $\ddot{Y}J$ and $\ddot{Y}K$
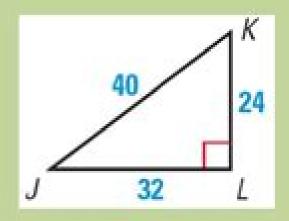

$$\tan J = \frac{opposite}{adjacent} = \frac{24}{32} = \frac{3}{4} \qquad \tan^{-1}(0.75) = 36.87$$

$$\tan K = \frac{opposite}{adjacent} = \frac{32}{24} = \frac{4}{3} \approx 1.\overline{3} \qquad \tan^{-1}(1.333) = 53.13$$

How To Find The Tangent

Sebastian Brünink

How To Find The Tangent:

The History of Mathematics: A Source-Based Approach, Volume 2 June Barrow-Green,Jeremy Gray,Robin Wilson,2022-05-26 The History of Mathematics A Source Based Approach is a comprehensive history of the development of mathematics This the second volume of a two volume set takes the reader from the invention of the calculus to the beginning of the twentieth century The initial discoverers of calculus are given thorough investigation and special attention is also paid to Newton s Principia The eighteenth century is presented as primarily a period of the development of calculus particularly in differential equations and applications of mathematics Mathematics blossomed in the nineteenth century and the book explores progress in geometry analysis foundations algebra and applied mathematics especially celestial mechanics The approach throughout is markedly historiographic How do we know what we know How do we read the original documents What are the institutions supporting mathematics Who are the people of mathematics The reader learns not only the history of mathematics but also how to think like a historian The two volume set was designed as a textbook for the authors acclaimed year long course at the Open University It is in addition to being an innovative and insightful textbook an invaluable resource for students and scholars of the history of mathematics The authors each among the most distinguished mathematical historians in the world have produced over fifty books and earned scholarly and expository prizes from the major mathematical societies of the English speaking world   Modern Algebra Raleigh Schorling,John Roscoe Clark,1929   Modern Mathematics, Briefer Course Raleigh Schorling,John Roscoe Clark,Harold Ordway Rugg,1924   **The Mine Surveyor's Book of Tables: Containing [!] the Natural Sines, Cosines, Tangents, Contangents, Secants and Cosecants, for Every Degree and Minute of the Quadrant** Rufus James Foster,1892   *Higher Engineering Mathematics* N.B. Singh, Higher Engineering Mathematics is a comprehensive textbook designed to provide students and professionals with a solid foundation in advanced mathematical techniques essential for engineering and applied sciences The book covers a wide range of topics including differential equations Fourier series Laplace transforms and complex analysis with a focus on practical applications Each chapter introduces key concepts in a clear and approachable manner supported by worked examples and problems that demonstrate how these mathematical tools are used to solve real world engineering problems Through step by step explanations and illustrative examples this book ensures that complex mathematical ideas are accessible and understandable for readers at all levels   **Calendar** University of Sydney,1896   **Calculus** Brian E. Blank,Steven George Krantz,2006 Calculus is one of the milestones of human thought and has become essential to a broader cross section of the population in recent years This two volume work focuses on today s best practices in calculus teaching and is written in a clear crisp style   Seismic Data Interpretation using Digital Image Processing Abdullatif A. Al-Shuhail,Saleh A. Al-Dossary,Wail A. Mousa,2017-08-14 Bridging the gap between modern image processing practices by the scientific community at large and the world of geology and reflection seismology This book covers the basics

of seismic exploration with a focus on image processing techniques as applied to seismic data Discussions of theories concepts and algorithms are followed by synthetic and real data examples to provide the reader with a practical understanding of the image processing technique and to enable the reader to apply these techniques to seismic data The book will also help readers interested in devising new algorithms software and hardware for interpreting seismic data Key Features Provides an easy to understand overview of popular seismic processing and interpretation techniques from the point of view of a digital signal processor Presents image processing concepts that may be readily applied directly to seismic data Includes ready to run MATLAB algorithms for most of the techniques presented The book includes essential research and teaching material for digital signal and image processing individuals interested in learning seismic data interpretation from the point of view of digital signal processing It is an ideal resource for students professors and working professionals who are interested in learning about the application of digital signal processing theory and algorithms to seismic data

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college level pre service and in service teachers and anyone who just wants to know a little more about the origins of mathematics *Cambridge 3 Unit Mathematics Year 11 Enhanced Version* William Pender,David Saddler,Julia Shea,Derek Ward,2011-04 Features The current and new versions will have the same pagination A large number of fully worked examples demonstrate mathematical processes and encourage independent learning Exercises are carefully graded to suit the range of students undertaking each mathematics course Online self marking objective response quizzes provide further opportunities to practice the multiple choice style questions included in HSC Maths exams 2 Unit 3 Unit Mathematics Foundation questions consolidate fluency and understanding development questions encourage students to apply their understanding to a particular context Extension or Challenge questions inspire further thought and development for advanced students The wealth of questions in these three categories enables teachers to make a selection to be attempted by students of differing abilities and provides students with opportunities to practice questions of the standard they will encounter in their HSC exams **Approximately Calculus** Shahriar Shahriari,2006 Is there always a prime number between n and 2n Where approximately is the millionth prime And just what does calculus have to do with answering either of these questions It turns out that calculus has a lot to do with both questions as this book can show you The theme of the book is approximations Calculus is a powerful tool because it allows us to approximate complicated functions with simpler ones Indeed replacing a function locally with a linear or higher order approximation is at the heart of calculus The real star of the book though is the task of approximating the number of primes up to a number x This leads to the famous Prime Number Theorem and to the answers to the two questions about primes While emphasizing the role of approximations in calculus most major topics are addressed such as derivatives integrals the Fundamental Theorem of Calculus sequences series and so on However our particular point of view also leads us to many unusual topics curvature Pade approximations public key cryptography and an analysis of the logistic equation to name a few The reader takes an active role in developing the material by solving problems Most topics are broken down into a series of manageable problems which guide you to an understanding of the important ideas There is also ample exposition to fill in background material and to get you thinking appropriately about the concepts Approximately Calculus is intended for the reader who has already had an introduction to calculus but wants to engage the concepts and ideas at a deeper level It is suitable as a text for an honors or alternative second semester calculus course **Harvard University Catalogue** Harvard University,1874 *American Builder* ,1913 Building Age ,1910 **Modern Mathematics** Raleigh Schorling,1929 *A History of Mathematics* Luke Hodgkin,2013-02-21 A History of Mathematics From Mesopotamia to Modernity covers the evolution of mathematics through time and across the major Eastern and Western civilizations It begins in Babylon then describes the trials and tribulations of the Greek mathematicians The important and often neglected influence of both Chinese and Islamic mathematics is covered in detail placing the description of early Western mathematics in a global context The book concludes with modern

mathematics covering recent developments such as the advent of the computer chaos theory topology mathematical physics and the solution of Fermat s Last Theorem Containing more than 100 illustrations and figures this text aimed at advanced undergraduates and postgraduates addresses the methods and challenges associated with studying the history of mathematics The reader is introduced to the leading figures in the history of mathematics including Archimedes Ptolemy Qin Jiushao al Kashi al Khwarizmi Galileo Newton Leibniz Helmholtz Hilbert Alan Turing and Andrew Wiles and their fields An extensive bibliography with cross references to key texts will provide invaluable resource to students and exercises with solutions will stretch the more advanced reader   **AS and A Level Maths For Dummies** Colin Beveridge,2016-05-02 Pass your AS A level maths with flying colours Looking to pass your AS and A level maths Look no further AS A Level Maths For Dummies offers detailed simple steps for all of the main types of problems you ll face in your exams offering explanations of how the topics link together advice on how to remember the key facts and methods and ways to structure revision Even if your head is spinning and you don t know where to begin this fun and friendly guide gives in depth support on exactly what you need to know In the big data and digital age maths skills have never been more important to career success AS A Level Maths For Dummies guides you through the skills needed to pass the exams taken at the end of the first and second year of the course It begins with the knowledge needed to get a top grade at GCSE followed by sections on Algebra functions graph sketching and logarithms Geometry coordinate geometry trigonometry and working with shapes and Calculus differentiation integration and differential equations Helps you build the confidence you need to pass your exams Serves as an excellent supplement to classroom learning Makes difficult maths concepts easy to understand Offers in depth support in a fun and friendly style If you re an AS A level student looking to do your very best at exam time AS A Level Maths For Dummies makes it easier   **A Course in Shades and Shadows for the Use of Colleges and Scientific Schools** William Watson,1885

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