

Natural Logarithms

Logarithms to the base e are called natural logarithms.

$$\log_e x = \ln x \quad \text{i.e.} \quad \log_{2.718} x = \ln x$$

Examples

Solve the following, rounding correct to 1 d.p.:

a) $\ln x = 5$

$$\log_e x = 5$$

$$x = e^5$$

$$x = 148.41316$$

$$\underline{\underline{x = 148.4 \text{ (1dp)}}}$$

b) $e^x = 7$ (Take natural logs of each side)

$$\ln e^x = \ln 7$$

$$x \log_e e = \ln 7 \quad (\log_e e = 1)$$

$$x = \ln 7$$

$$x = 1.9459101$$

$$\underline{\underline{x = 1.9 \text{ (1dp)}}}$$

8 6 Natural Logarithms Applications Answers

Cynthia Y. Young



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Maths for Economics Geoffrey Renshaw, Norman J. Ireland, 2021 Maths for Economics provides a solid foundation in mathematical principles and methods used in economics beginning by revisiting basic skills in arithmetic algebra and equation solving and slowly building to more advanced topics using a carefully calculated learning gradient *Precalculus* Cynthia Y. Young, 2023-05-16 Cynthia Young's Precalculus 4th edition helps students take the guesswork out of studying by offering them an easy to read and clear roadmap that tells them what to do how to do it and whether they did it right With this revision the author focuses on the most difficult topics in precalculus bringing clarity to challenging learning objectives

Algebra 2, Vol. III: Lessons 91 - 135 Quantum Scientific Publishing, 2023-06-11 Quantum Scientific Publishing QSP is committed to providing publisher quality low cost Science Technology Engineering and Math STEM content to teachers students and parents around the world This book is the third of four volumes in Algebra 2 containing lessons 91 135 Volume I Lessons 1 45 Volume II Lessons 46 90 Volume III Lessons 91 135 Volume IV Lessons 136 180 This title is part of the QSP Science Technology Engineering and Math Textbook Series **Basic Mathematics for Economists** Mike Rosser, Piotr Lis, 2016-04-28 Basic Mathematics for Economists now in its 3rd edition is a classic of its genre and this new edition builds on the success of previous editions Suitable for students who may only have a basic mathematics background as well as students who may have followed more advanced mathematics courses but who still want a clear explanation of fundamental concepts this book covers all the basic tenets required for an understanding of mathematics and how it is applied in economics finance and business Starting with revisions of the essentials of arithmetic and algebra students are then taken through to more advanced topics in calculus comparative statics dynamic analysis and matrix algebra with all topics explained in the context of relevant applications New features in this third edition reflect the increased emphasis on finance in many economics and related degree courses with fuller analysis of topics such as savings and pension schemes including draw down pensions asset valuation techniques for bond and share prices the application of integration to concepts in economics and finance input output analysis using spreadsheets to do matrix algebra calculations In developing new topics the book never loses sight of their applied context and examples are always used to help explain analysis This book is the most logical user friendly book on the market and is usable for mathematics of economics finance and business courses in all countries

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need to successfully approach the problems in logarithms and exponential functions that they will encounter on exams

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Technical Bulletin, 1976

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Bulletin Washington (State). Superintendent of Public Instruction, 1913

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Young, 2021-07-07 Cynthia Young's *College Algebra* 5th Edition helps students take the guesswork out of studying by offering them an easy to read and clear roadmap that tells them what to do how to do it and whether they did it right With this revision Cynthia Young focuses on the most challenging topics in college algebra bringing clarity to those learning objectives *College Algebra* Fifth Edition is written in a voice that speaks to students and mirrors how effective instructors communicate in lecture Young's hallmark pedagogy enables students to become independent successful learners Key features like Parallel Words and Math and Catch the Mistake exercises are taken directly from classroom experience and keep the learning fresh and motivating

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Army Institutes of Research Anselm Clyde Griffin, C. E. Schreck, Jack R. Coulson, James Kasal, Tien-Chioh Tso, 1977

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