

## Solving Exponential and Log Equations

Solve each equation below for x. Round to 2 decimal places and show work

1.  $2^{8x-16} - 49 = 67$

2.  $4^{3x+21} - 83 = 2$

3.  $7^{5x-65} + 33 = 120$

4.  $9^{2x-38} - 47 = 123$

5.  $8^{3x+39} + 46 = 132$

6.  $2^{-x-14} - 37 = -13$

7.  $e^{4x+9} - 12 = 19$

8.  $e^{x-15} + 56 = 88$

9.  $2e^{3x-11} - 21 = 37$

10.  $3e^{6x-54} - 34 = 83$

# 15 Using Logs To Solve Exponential Equations Worksheet

**Kenneth F. Klopfenstein**



## 15 Using Logs To Solve Exponential Equations Worksheet:

**Business Analytics and Statistics, 2nd Edition** Ken Black, John Asafu-Adjaye, Paul Burke, Nazim Khan, Gerard King, Nelson Perera, Andrew Papadimos, Carl Sherwood, Saleh Wasimi, 2024-04-08 Written for the Australian and New Zealand markets the second edition of Business Analytics Statistics Black et al presents statistics in a cutting edge interactive digital format designed to motivate students by taking the road blocks out of self study and to facilitate master through drill and skill practice

*Spreadsheet Tools for Engineers* Byron S. Gottfried, 1998 Spreadsheet Tools for Engineers Excel 97 Version explains how to use the latest version of Microsoft's popular spreadsheet package Excel to solve simple problems that commonly arise in engineering analysis It is intended as a supplementary textbook for use in introductory engineering courses although it will also be of interest to more advanced students and to practicing engineers This new edition has been rewritten for Excel 97 the version of Excel included in Microsoft's Office 97 suite It includes separate chapters on Excel fundamentals graphing data analyzing data using simple statistics fitting equations to data interpolating between data points solving single algebraic equations solving simultaneous algebraic equations evaluating integrals comparing alternatives using engineering economic analysis finding optimum solutions and sorting and retrieving data The book contains many detailed examples supplemented by a large number of problems for student solution Answers are provided for most problems

Book jacket *Journal Water Pollution Control Federation*, 1983 Spreadsheet Problem Solving and Programming for Engineers and Scientists David E. Clough, Steven C. Chapra, 2023-10-19 Spreadsheet Problem Solving and Programming for Engineers and Scientists provides a comprehensive resource essential to a full understanding of modern spreadsheet skills needed for engineering and scientific computations Beginning with the basics of spreadsheets and programming this book builds on the authors decades of experience teaching spreadsheets and programming to both university students and professional engineers and scientists Following on from this it covers engineering economics key numerical methods and applied statistics Finally this book details the Visual Basic for Applications VBA programming system that accompanies Excel With each chapter including examples and a set of exercises this book is an ideal companion for all engineering courses and also for self study Based on the latest version of Excel Microsoft Excel for Microsoft 365 it is also compatible with earlier versions of Excel dating back to Version 2013 Including numerous case studies this book will be of interest to students and professionals working in all areas of engineering and science

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