

## DISTANCE AND MIDPOINT FORMULAS

Distance between  $P_1(x_1, y_1)$  and  $P_2(x_2, y_2)$ :

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Midpoint of  $P_1P_2$ :  $\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$

## LINES

Slope of line through  $P_1(x_1, y_1)$  and  $P_2(x_2, y_2)$ :  $m = \frac{y_2 - y_1}{x_2 - x_1}$

Point-slope equation of line through  $P_1(x_1, y_1)$  with slope  $m$ :  $y - y_1 = m(x - x_1)$

Slope-intercept equation of line with slope  $m$  and  $y$ -intercept  $b$ :  $y = mx + b$

Two-intercept equation of line with  $x$ -intercept  $a$  and  $y$ -intercept  $b$ :  $\frac{x}{a} + \frac{y}{b} = 1$

## LOGARITHMS

$y = \log_a x$  means  $a^y = x$

$\log_a a^x = x$

$\log_a 1 = 0$

$\log_a x = \log_{a^k} x^k$

$\log_a xy = \log_a x + \log_a y$

$\log_a x^b = b \log_a x$

$a^{\log_a x} = x$

$\log_a a = 1$

$\ln x = \log_e x$

$\log_a \left(\frac{x}{y}\right) = \log_a x - \log_a y$

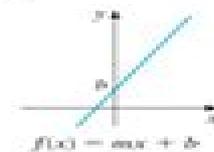
$\log_a x = \frac{\log_b x}{\log_b a}$

## EXPONENTIAL AND LOGARITHMIC FUNCTIONS



## GRAPHS OF FUNCTIONS

Linear functions:  $f(x) = mx + b$



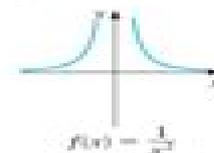
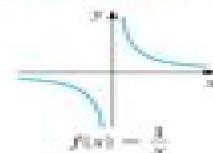
Power functions:  $f(x) = x^n$



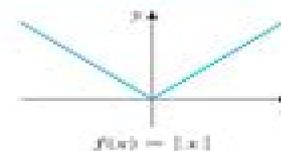
Root functions:  $f(x) = \sqrt[n]{x}$



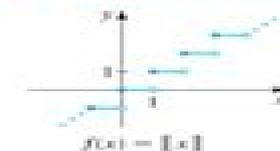
Reciprocal functions:  $f(x) = 1/x^n$



Absolute value function



Greatest integer function



# Calculus 7th Edition Solution

**LL Leslie**



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Gleason, William G. McCallum, David O. Lomen, David Lovelock, Jeff Tecosky-Feldman, Thomas W. Tucker, Daniel E. Flath, Joseph Thrash, Karen R. Rhea, Andrew Pasquale, Sheldon P. Gordon, Douglas Quinney, Patti Frazer Lock, 2017-02-28 This is the Student Solutions Manual to accompany Calculus Single Variable 7th Edition Calculus Single Variable 7e continues the effort to promote courses in which understanding and computation reinforce each other The 7th Edition reflects the many voices of users at research universities four year colleges community colleges and secondary schools This new edition has been streamlined to create a flexible approach to both theory and modeling The program includes a variety of problems and examples from the physical health and biological sciences engineering and economics emphasizing the connection between calculus and other fields *Complete Solutions Guide: Calculus, 7th Ed* Bruce H. Edwards, 2002 **A Treatise on Hydromechanics: Hydrostatics, by W. H. Besant and A. S. Ramsey. 7th ed. 1911** William Henry Besant, Arthur Stanley Ramsey, 1911 Student Solutions Manual for Berresford/Rockett's Applied Calculus, 7th Geoffrey C. Berresford, Andrew M. Rockett, 2014-11-20 This manual contains fully worked out solutions to all of the odd numbered exercises in the text giving you a way to check your answers and ensure that you took the correct steps to arrive at an answer Instructor's Solutions Manual for Statistics for Management and Economics, Seventh Edition Gerald Keller, 2005 **Applied Mathematics for Physical Chemistry** James R. Barrante, 2016-02-10 By the time chemistry students are ready to study physical chemistry they've completed mathematics courses through calculus But a strong background in mathematics doesn't necessarily equate to knowledge of how to apply that mathematics to solving physicochemical problems In addition in depth understanding of modern concepts in physical chemistry requires knowledge of mathematical concepts and techniques beyond introductory calculus such as differential equations Fourier series and Fourier transforms This results in many physical chemistry instructors spending valuable lecture time teaching mathematics rather than chemistry Barrante presents both basic and advanced mathematical techniques in the context of how they apply to physical chemistry Many problems at the end of each chapter test students mathematical knowledge Designed and priced to accompany traditional core textbooks in physical chemistry *Applied Mathematics for Physical Chemistry* provides students with the tools essential for answering questions in thermodynamics atomic molecular structure spectroscopy and statistical mechanics *Complete Solutions Guide* Bruce H. Edwards, 2002 **Student's Solutions Manual** John R. Martin, Washington, 2000 **The Edinburgh University Calendar** University of Edinburgh, 1920

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