

Solving Log & Exp Equations Worksheet

$$2. \log_3(3x-2) = 2$$
$$3^2 = 3x-2$$
$$9 = 3x$$
$$x = \frac{9}{3} \quad \checkmark$$

$$4. \log_5(x^2+x+4) = 2$$
$$5^2 = x^2+x+4$$
$$0 = x^2+x-21$$
$$x = \frac{-1 \pm \sqrt{1-4(-21)}}{2}$$

$$6. -2\log_4 x = \log_4 9$$
$$\log_4 x^{-2} = \log_4 9$$
$$x^{-2} = 9$$
$$\frac{1}{x^2} = 9$$
$$9x^2 = 1$$
$$x^2 = \frac{1}{9}$$
$$x = \pm \frac{1}{3} \quad \cancel{-\frac{1}{3}} \quad \checkmark$$

$$x = -\frac{-1 \pm \sqrt{85}}{2} \quad \checkmark$$
$$x = -\frac{-1 + \sqrt{85}}{2} \quad x = -\frac{-1 - \sqrt{85}}{2}$$

$$8. 3\log_2 x = -\log_2 27$$
$$\log_2 x^3 = \log_2 \frac{1}{27}$$
$$x^3 = \frac{1}{27}$$
$$x = \frac{1}{3} \quad \checkmark$$

$$10. 2\log_3(x+4) - \log_3 9 = 2$$
$$\log_3 \left(\frac{(x+4)^2}{9} \right) = 2$$
$$9 = \frac{(x+4)^2}{9}$$
$$81 = (x+4)^2$$
$$\pm 9 = x+4$$
$$\boxed{x=5} \quad \cancel{x=-13}$$

$$12. \log_4 x + \log_4(x-3) =$$
$$\log_4(x^2-3x) = 1$$
$$x^2-3x = 4$$
$$x^2-3x-4 = 0$$
$$(x-4)(x+1) = 0$$
$$\boxed{x=4} \quad \cancel{x=-1}$$

Algebra 2 Logarithms Practice Problems

Linda Gilbert,Jimmie Gilbert

Algebra 2 Logarithms Practice Problems:

Mathematics United States. Bureau of Naval Personnel,1966 *Attacking Problems in Logarithms and Exponential Functions* David S. Kahn,2015-09-30 This original volume offers a concise highly focused review of what high school and beginning college students need to know in order to solve problems in logarithms and exponential functions Numerous rigorously tested examples and coherent to the point explanations presented in an easy to follow format provide valuable tools for conquering this challenging subject The treatment is organized in a way that permits readers to advance sequentially or skip around between chapters An essential companion volume to the author's *Attacking Trigonometry Problems* this book will equip students with the skills they will need to successfully approach the problems in logarithms and exponential functions that they will encounter on exams Cliffsnotes TExES Math 4-8 (115) and Math 7-12 (235) Sandra Luna McCune,2020-09-15 Preparation and instruction book providing test taking strategies and reviews of all test topics Includes two practice tests for both the TExES Math 4 8 115 and Math 7 12 235 exams including answers and complete explanations

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Intermediate Algebra John Tobey,Jeffrey Slater,1998 *All the Math*

Carson Aft,Lucas Connell,2018-06-25 This is a book for students that find they are lacking the skills and practice necessary to do well on the college admissions tests that will determine their future Rather than sifting through 10 books to piece together the skills you will need you can find them in one place This is one book with all the math *Electronics Math* Bill R. Deem,1997 Ideal as a review reference this best seller focuses on mathematical topics that are most useful in solving electronics problems Hands on in approach it features an abundance of step by step examples practice problems and self tests Calculator usage is covered as necessary

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Deborah Hughes-Hallett,Andrew M. Gleason,William G. McCallum,Daniel E. Flath,David O. Lomen,David Lovelock,Jeff Tecosky-Feldman,Thomas W. Tucker,Joseph Thrash,Karen R. Rhea,Andrew Pasquale,Sheldon P. Gordon,Douglas Quinney,Patti Frazer Lock,1999-03-30 A revision of the best selling innovative Calculus text on the market Functions are presented graphically numerically algebraically and verbally to give readers the benefit of alternate interpretations The text is problem driven with exceptional exercises based on real world applications from engineering physics life sciences and economics Revised edition features new sections on limits and continuity limits l Hopital s Rule and relative growth rates and hyperbolic functions

Geometry, Trigonometry, Algebra III John H. Saxon,1985

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