Algebra II

Name

Worksheet 10.5-10.6 Date

Period

Solve each equation or inequality. Round to four decimal places

1.
$$\ln(x+2)=3$$

 $e^{\ln(x+2)}=e^3$
 $x+2=e^3=20.0855$
 $x=18.0855$

2.
$$5e^{3x} + 1 \ge 7$$

$$5e^{5x} \ge 6$$
 $e^{5x} \ge \frac{6}{10}$
 $10e^{5x} \ge 10$
 $5x^2 . 1823$
 $5x^2 . 0365$

3.
$$\ln(-2x) = 7$$

 $e^{\ln(-2x)} = e^{7}$
 $-2x = 1096.6332$

X = -548.3166

$$-3e^{2} + 10 < 8$$

 $-10 - 18$
 $-3e^{2} < -2$
 $e^{2} > \frac{2}{3}$
 $\ln e^{2} > \ln^{2} / 3$

5. Write an equivalent logarithmic equation for $e^4 = 8x$. 6. Evaluate $e^{\ln 2x}$.

7. A substance decays according to the equation $y = ae^{-0.1216t}$, where t is in years. Find the half-life of the substance. Round to the nearest tenth. $y = \frac{1}{2}\alpha$ $\frac{1}{2}\alpha = \alpha e^{-.12/6}t$ $0.5 = e^{-.12/6}t$ $1n0.5 = \ln e^{-.12/6}t$

$$t = \frac{\ln 0.5}{-.1216} = 5.7002$$

- 8. A piece of machinery valued at \$250,000 depreciates at a fixed rate of 12% per year. After how many years will the value have depreciated to \$100,000?

how many years will the value have depreciated to \$100,000?
$$y = \alpha(1-r)^{\alpha}$$

100,000 = 250,000 (1-.12) $y = \frac{\log_2 y}{\log_2 y}$

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9. The Smiths bought a house worth \$400,000. Assuming that the house will appreciate 5.6% per year, what will the house be worth in twelve years? Round to the nearest dollar.

of 5 12-

10. A certain strain of bacteria grows from 40 to 326 in 120 minutes. Find the constant k for this type of bacteria, then write the equation for modeling this exponential growth.

Answers For The Msat Algebra 1

Fred Szabo

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Linear Algebra with Mathematica, Student Solutions Manual Fred Szabo, 2000-09-07 This book introduces interested readers practitioners and researchers to Mathematica methods for solving practical problems in linear algebra It contains step by step solutions of problems in computer science economics engineering mathematics statistics and other areas of application Each chapter contains both elementary and more challenging problems grouped by fields of application and ends with a set of exercises Selected answers are provided in an appendix The book contains a glossary of definitions and theorem as well as a summary of relevant Mathematica tools Applications of Linear Algebra can be used both in laboratory sessions and as a source of take home problems and projects Concentrates on problem solving and aims to increase the readers analytical skills Provides ample opportunities for applying theoretical results and transferring knowledge between different areas of application Mathematica plays a key role in this process Makes learning fun and builds confidence Allows readers to tackle computationally challenging problems by minimizing the frustration caused by the arithmetic intricacies of numerical Test Items for Stewart, Redlin, and Watson's Algebra and Trigonometry William Steven linear algebra Harmon,2001 CORD Algebra 1 Cord,1998 Barron's New MCAT, 2007-2008 Hugo Seibel, Melissa Chichowicz, A. Bryant Mangum, Carolyn M. Conway, Arthur F. Conway, 2006-10-01 Beginning in January 07 students applying for admission to medical schools must take the computer based MCAT The pencil and paper version of the Medical College Admission Test will no longer be given Barron's new eleventh edition of the MCAT manual prepares applicants with four full length practice tests modeled after the brand new computer based tests Each practice MCAT consists of 144 questions the same number to be found on the new MCAT with all questions answered and explained Every test question in the manual closely reflects those on the computer based test in length and degree of difficulty Also presented are subject reviews that cover all test topics They include A detailed MCAT science review in biology chemistry and physics A math review Verbal reasoning test taking strategies Advice on answering the MCAT writing sample Test takers will also value this book s handy reference tables which include logarithms and exponents a table of common logarithms the periodic table of the elements a list of the elements with their symbols and a chemistry reference table Transcendence and Linear Relations of 1-Periods Annette Huber, Gisbert Wüstholz, 2022-05-26 Leading experts explore the relation between periods and transcendental numbers using a modern approach derived from the theory of motives Surveying and Mapping ,1984 Glencoe Algebra 1,2001

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Subcommittee on Science, Research, and Technology, 1976 Mechanics Magazine John I Knight, 1830

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