

Exam 1 Review Problems

This problem set is for your benefit and will not be turned in for a grade. This is just a sampling of problems and is not intended to be an all inclusive review. Exam 1 will cover Sections 1.2-1.4, 3.1-3.5. Only a four function calculator will be allowed on the exam. The exam will consist of multiple choice and workout problems. Work will not be checked on the multiple choice problems, but for the workout problems, you will be required to show your work to receive full credit.

1. Find the domain of $f(x) = \frac{\log_2(5-x) + \sqrt{2x+9}}{x^2+x-12}$

Handwritten notes:
 $x \neq 5$
 $x^2+x-12 = (x+4)(x-3)$
 $x \neq -4, x \neq 3$
 bc of odd root, you can't have any #

$f(x) = (-\infty, -4) \cup (-4, 5) \cup (3, 5)$

Additional notes:
 $x \neq -12$
 $+ to +1$

2. Given $y = 2 \cdot 7^{4x}$, use a logarithmic transformation to find a linear relationship between x and $Y = \log y$.

$\log y = \log 2 + \log 7^{4x}$

$Y = 4x \log(7) + \log 2$

3. Given the semi-log plot in Figure 2, find a functional relationship between x and y .

Step 2: 3

$(0, -1) (4, 1)$

$\frac{1 - (-1)}{4 - 0} = \frac{2}{4} = \frac{1}{2}$

$1 = \frac{1}{2}(4) + b$

$\frac{1}{2} = \frac{b}{2} + b$

$b = -1$

$Y = \frac{1}{2}x - 1$

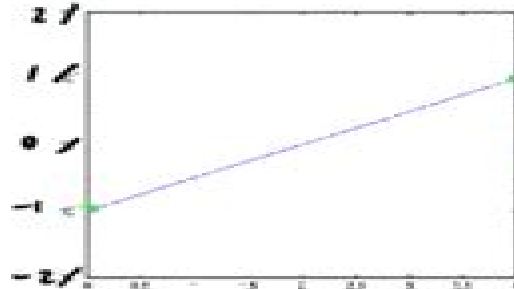


Figure 2: Figure for Problem 3.

Step 4:

$Y = \frac{1}{2}x - 1$

$\log y = \frac{1}{2}x - 1$

$y = 10^{\frac{1}{2}x - 1}$

$= 10^{\frac{1}{2}x} \cdot 10^{-1}$

$y = \frac{1}{10} (10^{\frac{1}{2}})^x$

$y = \frac{1}{10} (\sqrt{10})^x$

4. Solve the following equations for x .

(a) $\log_2(x-5) + \log_2(x-2) = 2$

$\log_2(x-5)(x-2) = \log_2(x^2 - 7x + 10) = \frac{2}{2} = 2 = x^2 - 7x + 10 = 0$

$x^2 - 7x + 10 = 0$

$x = 5, x = 2$

Can't be $x=1$ bc when substituted it is negative

$x-5 \rightarrow x=1$
 $x-2 \rightarrow x=6$

(b) $3^x - 3^{x-1} + 4 = 8$

$3^x + x - 1 = 4$

$\ln 3^{x-1} = 4$

$(2x-1) \ln 3 = \ln(4)$

$x = \frac{\frac{\ln 4}{\ln 3} + 1}{2} = x$

5. Convert 48° to radians.

$48^\circ \times \frac{\pi}{180} = \frac{24\pi}{90} = \frac{8\pi}{30} = \frac{4\pi}{15}$

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Tao Wei



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Table of Contents Math 147 Exam Iii Practice Problems Texas A M University

1. Understanding the eBook Math 147 Exam Iii Practice Problems Texas A M University
 - The Rise of Digital Reading Math 147 Exam Iii Practice Problems Texas A M University
 - Advantages of eBooks Over Traditional Books
2. Identifying Math 147 Exam Iii Practice Problems Texas A M University
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Math 147 Exam Iii Practice Problems Texas A M University
 - User-Friendly Interface
4. Exploring eBook Recommendations from Math 147 Exam Iii Practice Problems Texas A M University

- Personalized Recommendations
 - Math 147 Exam Iii Practice Problems Texas A M University User Reviews and Ratings
 - Math 147 Exam Iii Practice Problems Texas A M University and Bestseller Lists
5. Accessing Math 147 Exam Iii Practice Problems Texas A M University Free and Paid eBooks
 - Math 147 Exam Iii Practice Problems Texas A M University Public Domain eBooks
 - Math 147 Exam Iii Practice Problems Texas A M University eBook Subscription Services
 - Math 147 Exam Iii Practice Problems Texas A M University Budget-Friendly Options
 6. Navigating Math 147 Exam Iii Practice Problems Texas A M University eBook Formats
 - ePub, PDF, MOBI, and More
 - Math 147 Exam Iii Practice Problems Texas A M University Compatibility with Devices
 - Math 147 Exam Iii Practice Problems Texas A M University Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Math 147 Exam Iii Practice Problems Texas A M University
 - Highlighting and Note-Taking Math 147 Exam Iii Practice Problems Texas A M University
 - Interactive Elements Math 147 Exam Iii Practice Problems Texas A M University
 8. Staying Engaged with Math 147 Exam Iii Practice Problems Texas A M University
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Math 147 Exam Iii Practice Problems Texas A M University
 9. Balancing eBooks and Physical Books Math 147 Exam Iii Practice Problems Texas A M University
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Math 147 Exam Iii Practice Problems Texas A M University
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Math 147 Exam Iii Practice Problems Texas A M University
 - Setting Reading Goals Math 147 Exam Iii Practice Problems Texas A M University
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Math 147 Exam Iii Practice Problems Texas A M University

- Fact-Checking eBook Content of Math 147 Exam Iii Practice Problems Texas A M University
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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