

**Math III - Final Exam Review - Logs and Exponential** Date \_\_\_\_\_ Period \_\_\_\_\_

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**Simplify. Your answer should contain only positive exponents with no fractional exponents in the denominator.**

1)  $\frac{x^0 x^{-\frac{5}{3}}}{(x^{-1})^{-1}}$

2)  $\frac{v^0 \left(v^{\frac{2}{3}}\right)^{\frac{3}{2}}}{v^{\frac{1}{2}}}$

3)  $\frac{(a^{-2})^{-1} a^0}{a}$

4)  $\frac{\left(m^{-\frac{1}{2}}\right)^2}{m \cdot m}$

5)  $\left(\frac{\left(k^{\frac{2}{3}}\right)^{\frac{1}{3}}}{kk^{-1}}\right)^{\frac{3}{2}}$

6)  $\frac{\left((x^{-2})^0 x^0\right)^2}{x^{-\frac{2}{3}}}$

**Simplify. Your answer should contain only positive exponents.**

7)  $\frac{a^0 b^{-2} \cdot b^{-4}}{2ba^2}$

8)  $\frac{(y^4)^{-1}}{(x^{-2}y^{-2})^0 \cdot xy^{-4} \cdot 2yx^2}$

9)  $\left(\frac{x^4 y^4 \cdot 2yx^2}{x^3 y^4}\right)^3$

10)  $\left(\frac{2b^4}{a^{-4}a^{-3}}\right)^{-4}$

**Evaluate each expression.**

11)  $\log_5 25$

12)  $\log_4 16$

13)  $\log_6 216$

14)  $\log_4 64$

**Use a calculator to approximate each to the nearest thousandth.**

15)  $\ln 2.2$

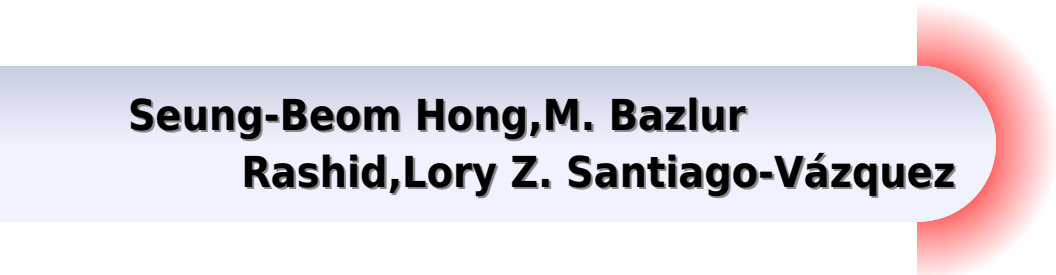
16)  $\log 2.7$

17)  $\log 34$

18)  $\ln 9$

# Math 3 Spring Final Exam Review

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### **Table of Contents Math 3 Spring Final Exam Review**

1. Understanding the eBook Math 3 Spring Final Exam Review
  - The Rise of Digital Reading Math 3 Spring Final Exam Review
  - Advantages of eBooks Over Traditional Books
2. Identifying Math 3 Spring Final Exam Review
  - 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 3 Spring Final Exam Review
  - User-Friendly Interface
4. Exploring eBook Recommendations from Math 3 Spring Final Exam Review
  - Personalized Recommendations

- Math 3 Spring Final Exam Review User Reviews and Ratings
- Math 3 Spring Final Exam Review and Bestseller Lists
- 5. Accessing Math 3 Spring Final Exam Review Free and Paid eBooks
  - Math 3 Spring Final Exam Review Public Domain eBooks
  - Math 3 Spring Final Exam Review eBook Subscription Services
  - Math 3 Spring Final Exam Review Budget-Friendly Options
- 6. Navigating Math 3 Spring Final Exam Review eBook Formats
  - ePub, PDF, MOBI, and More
  - Math 3 Spring Final Exam Review Compatibility with Devices
  - Math 3 Spring Final Exam Review Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Math 3 Spring Final Exam Review
  - Highlighting and Note-Taking Math 3 Spring Final Exam Review
  - Interactive Elements Math 3 Spring Final Exam Review
- 8. Staying Engaged with Math 3 Spring Final Exam Review
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Math 3 Spring Final Exam Review
- 9. Balancing eBooks and Physical Books Math 3 Spring Final Exam Review
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Math 3 Spring Final Exam Review
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Math 3 Spring Final Exam Review
  - Setting Reading Goals Math 3 Spring Final Exam Review
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Math 3 Spring Final Exam Review
  - Fact-Checking eBook Content of Math 3 Spring Final Exam Review

- 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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