

# Math 080 Final Exam Review – 2008

**Note:** If you have difficulty with any of these problems, get help, then go back to the appropriate sections in the text and work more problems!

**For problems 1 through 20 , solve for x, writing solutions of inequalities in interval notation:**

$$1. \frac{1}{5}(2x-5) - 4 = \frac{1}{2}(x+4) - \frac{7}{10} \qquad 2. \frac{2}{x+1} + \frac{3}{x-1} = \frac{-4}{x^2-1}$$

$$3. 1 - 3x < 7 \qquad 4. |2x - 3| - 6 = -1$$

$$5. a = \frac{2}{3}xt \qquad 6. |5 - x| < 7$$

$$7. 2x^2 + x = 15 \qquad 8. \ln x = 3 \qquad 9. x^2 - 2x + 2 = 0$$

$$10. -6 < \frac{2x+1}{3} \leq 1 \qquad 11. 8^x = \frac{1}{16} \qquad 12. \sqrt{3-x} + 1 = x$$

$$13. \log_8(2x) + \log_8(x+3) = 1 \qquad 14. |4x+1| \geq 5$$

$$15. 3x^4 - x^2 - 2 = 0 \qquad 16. 2^{x+1} = 3 \qquad 17. -3x^2 - 4x + 9 \leq 5$$

$$18. \frac{5}{x} + \frac{3}{x+2} = 1 \qquad 19. \frac{x}{2} \leq -4 \text{ or } \frac{2x-1}{3} \geq 2 \qquad 20. -2e^x = -24$$

**For problems 21 through 23, solve each system:**

$$\begin{array}{lll} 21. \begin{array}{l} 5x - 2y = 4 \\ 2x + 3y = 13 \end{array} & 22. \begin{array}{l} x + y - z = 4 \\ 3x - 5y + 4z = 3 \\ 6x - 7y - 2z = 2 \end{array} & 23. \begin{array}{l} x + y + z = 57 \\ 3x + y = 3 \\ x - z = 6 \end{array} \end{array}$$

**For problems 24 through 47, perform the indicated operations and/or simplify as much as possible:**

$$24. (8x+1)^2 \qquad 25. (8x^3 - 9x^2 - 6x) - (-4x^2 + 11x - 6)$$

$$26. (x+1)(x^2 - x + 1) \qquad 27. \frac{1 + \frac{a}{b}}{1 - \frac{a^2}{b^2}} \qquad 28. \frac{(3x^2)^2(2x^5)}{-4x^2(3x^6)}$$

$$29. \frac{x^2-1}{x^2-2x+1} \div \frac{x+4}{x-1} \qquad 30. \frac{6}{m^2-m} - \frac{2}{m^2+2m}$$

$$31. \frac{x+2}{x-3} - \frac{x-5}{3-x} \qquad 32. \frac{x^2+x-12}{x^3+9x^2+20x} \cdot \frac{x^3+x^2y}{x^2-y^2} \qquad 33. \frac{2}{a-1} + \frac{3}{a+2}$$

# Math 080 Study Guide

**Karin Nielsen-Saines**



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### **Table of Contents Math 080 Study Guide**

1. Understanding the eBook Math 080 Study Guide
  - The Rise of Digital Reading Math 080 Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Math 080 Study Guide
  - 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 080 Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Math 080 Study Guide
  - Personalized Recommendations
  - Math 080 Study Guide User Reviews and Ratings

- Math 080 Study Guide and Bestseller Lists
- 5. Accessing Math 080 Study Guide Free and Paid eBooks
  - Math 080 Study Guide Public Domain eBooks
  - Math 080 Study Guide eBook Subscription Services
  - Math 080 Study Guide Budget-Friendly Options
- 6. Navigating Math 080 Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Math 080 Study Guide Compatibility with Devices
  - Math 080 Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Math 080 Study Guide
  - Highlighting and Note-Taking Math 080 Study Guide
  - Interactive Elements Math 080 Study Guide
- 8. Staying Engaged with Math 080 Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Math 080 Study Guide
- 9. Balancing eBooks and Physical Books Math 080 Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Math 080 Study Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Math 080 Study Guide
  - Setting Reading Goals Math 080 Study Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Math 080 Study Guide
  - Fact-Checking eBook Content of Math 080 Study Guide
  - 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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