

Mathematics 30–2 Formula Sheet

Relations and Functions

Graphing Calculator Window Format

$$x: [x_{\min}, x_{\max}, x_{\text{scd}}]$$

$$y: [y_{\min}, y_{\max}, y_{\text{scd}}]$$

Exponents and Logarithms

$$y = a^x \leftrightarrow x = \log_a y$$

$$\log_a c = \frac{\log_a c}{\log_a b}$$

Laws of Logarithms

$$\log_b(M \cdot N) = \log_b M + \log_b N$$

$$\log_b\left(\frac{M}{N}\right) = \log_b M - \log_b N$$

$$\log_b(M^n) = n \log_b M$$

Exponential functions

$$y = a \cdot b^x$$

Logarithmic functions

$$y = a + b \cdot \ln x$$

Sinusoidal functions

$$y = a \cdot \sin(bx + c) + d$$

$$\text{Period} = \frac{2\pi}{b}$$

Quadratic equations

$$\text{For } ax^2 + bx + c = 0$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Probability

$$n! = n(n-1)(n-2)\dots 3 \cdot 2 \cdot 1,$$

where $n \in \mathbb{N}$ and $0! = 1$

$${}_n P_r = \frac{n!}{(n-r)!}$$

$${}_n C_r = \frac{n!}{(n-r)!r!}$$

$${}_n C_r = \binom{n}{r}$$

$$P(A \cup B) = P(A) + P(B)$$

$$P(A \cup B) = P(A) + P(B) - P(A \cap B)$$

$$P(A \cap B) = P(A) \cdot P(B)$$

$$P(A \cap B) = P(A) \cdot P(B|A)$$

Logical Reasoning

- \bar{A} Complement
- \emptyset Empty set
- \cap Intersection
- \subset Subset
- \cup Union

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D Keegan



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Table of Contents Math 30 2 Smith Math

1. Understanding the eBook Math 30 2 Smith Math
 - The Rise of Digital Reading Math 30 2 Smith Math
 - Advantages of eBooks Over Traditional Books
2. Identifying Math 30 2 Smith Math
 - 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 30 2 Smith Math
 - User-Friendly Interface
4. Exploring eBook Recommendations from Math 30 2 Smith Math
 - Personalized Recommendations
 - Math 30 2 Smith Math User Reviews and Ratings
 - Math 30 2 Smith Math and Bestseller Lists
5. Accessing Math 30 2 Smith Math Free and Paid eBooks
 - Math 30 2 Smith Math Public Domain eBooks
 - Math 30 2 Smith Math eBook Subscription Services
 - Math 30 2 Smith Math Budget-Friendly Options
6. Navigating Math 30 2 Smith Math eBook Formats

- ePub, PDF, MOBI, and More
 - Math 30 2 Smith Math Compatibility with Devices
 - Math 30 2 Smith Math Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Math 30 2 Smith Math
 - Highlighting and Note-Taking Math 30 2 Smith Math
 - Interactive Elements Math 30 2 Smith Math
 8. Staying Engaged with Math 30 2 Smith Math
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Math 30 2 Smith Math
 9. Balancing eBooks and Physical Books Math 30 2 Smith Math
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Math 30 2 Smith Math
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Math 30 2 Smith Math
 - Setting Reading Goals Math 30 2 Smith Math
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Math 30 2 Smith Math
 - Fact-Checking eBook Content of Math 30 2 Smith Math
 - 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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