

Math 100 Formula Sheet

Bring this formula sheet to every Quiz.

You can write any additional formulas or information on the back of this sheet if needed.

Quadratic Functions:

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

$$\left(-\frac{b}{2a}, f\left(-\frac{b}{2a}\right)\right)$$

Equation of a Line

$$y - y_1 = m(x - x_1)$$

$$m = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$$

Distance/Midpoint

$$D = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$(x - a)^2 + (y - b)^2 = r^2$$

$$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$$

Logarithm Rules

$$\log_c AB = \log_c A + \log_c B$$

$$\log_c \left(\frac{A}{B}\right) = \log_c A - \log_c B$$

$$\log_c A^B = B \log_c A$$

$$\log_B A = \frac{\log_c A}{\log_c B}$$

Exponential Model

$$y(t) = y_0 e^{kt}$$

$$y(t) = y_0 (2)^{t/h}$$

$$y(t) = y_0 \left(\frac{1}{2}\right)^{t/h}$$

$$T = C + (T_0 - C)e^{-kt}$$

Investment Formulas

$$A(t) = Pe^{rt}$$

$$A(t) = P \left(1 + \frac{r}{m}\right)^{tm}$$

Arc Length and Angular Speed

$$\theta = \frac{s}{r}$$

$$\omega = \frac{\theta}{t}$$

$$v = r\omega$$

Sine and Cosine Laws

$$c^2 = a^2 + b^2 - 2ab \cos C$$

$$a^2 = b^2 + c^2 - 2bc \cos A$$

$$b^2 = a^2 + c^2 - 2ac \cos B$$

$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

Trigonometric Identities

$$\tan \theta = \frac{\sin \theta}{\cos \theta}$$

$$\sec \theta = \frac{1}{\cos \theta}$$

$$\csc \theta = \frac{1}{\sin \theta}$$

$$\cot \theta = \frac{\cos \theta}{\sin \theta}$$

$$\cot \theta = \frac{1}{\tan \theta}$$

$$\sin^2 \theta + \cos^2 \theta = 1$$

$$\tan^2 \theta + 1 = \sec^2 \theta$$

$$\cot^2 \theta + 1 = \csc^2 \theta$$

Additive Angle Formulas

$$\sin(A + B) = \sin A \cos B + \sin B \cos A$$

$$\sin(A - B) = \sin A \cos B - \sin B \cos A$$

$$\cos(A + B) = \cos A \cos B - \sin A \sin B$$

$$\cos(A - B) = \cos A \cos B + \sin A \sin B$$

$$\tan(A + B) = \frac{\tan A + \tan B}{1 - \tan A \tan B}$$

$$\tan(A - B) = \frac{\tan A - \tan B}{1 + \tan A \tan B}$$

Double-Angle and Half-Angle Formulas

$$\sin(2A) = 2 \sin A \cos A$$

$$\tan(2A) = \frac{2 \tan A}{1 - \tan^2 A}$$

$$\cos(2A) = \cos^2 A - \sin^2 A = 2 \cos^2 A - 1 = 1 - 2 \sin^2 A$$

$$\sin^2 A = \frac{1 - \cos(2A)}{2}$$

$$\cos^2 A = \frac{1 + \cos(2A)}{2}$$

$$\tan^2 A = \frac{1 - \cos(2A)}{1 + \cos(2A)}$$

$$\sin \frac{A}{2} = \pm \sqrt{\frac{1 - \cos A}{2}}$$

$$\cos \frac{A}{2} = \pm \sqrt{\frac{1 + \cos A}{2}}$$

$$\tan \frac{A}{2} = \pm \sqrt{\frac{1 - \cos A}{1 + \cos A}} = \frac{1 - \cos A}{\sin A} = \frac{\sin(A)}{1 + \cos(A)}$$

Inverse Trigonometric Functions:

Range of \sin^{-1} is $\left[-\frac{\pi}{2}, \frac{\pi}{2}\right]$.

Range of \cos^{-1} is $[0, \pi]$.

Range of \tan^{-1} is $\left(-\frac{\pi}{2}, \frac{\pi}{2}\right)$.

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1. Understanding the eBook Math 100 Survey Of Mathematics Course Description
 - The Rise of Digital Reading Math 100 Survey Of Mathematics Course Description
 - Advantages of eBooks Over Traditional Books
2. Identifying Math 100 Survey Of Mathematics Course Description
 - 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 100 Survey Of Mathematics Course Description
 - User-Friendly Interface
4. Exploring eBook Recommendations from Math 100 Survey Of Mathematics Course Description

- Personalized Recommendations
 - Math 100 Survey Of Mathematics Course Description User Reviews and Ratings
 - Math 100 Survey Of Mathematics Course Description and Bestseller Lists
5. Accessing Math 100 Survey Of Mathematics Course Description Free and Paid eBooks
 - Math 100 Survey Of Mathematics Course Description Public Domain eBooks
 - Math 100 Survey Of Mathematics Course Description eBook Subscription Services
 - Math 100 Survey Of Mathematics Course Description Budget-Friendly Options
 6. Navigating Math 100 Survey Of Mathematics Course Description eBook Formats
 - ePub, PDF, MOBI, and More
 - Math 100 Survey Of Mathematics Course Description Compatibility with Devices
 - Math 100 Survey Of Mathematics Course Description Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Math 100 Survey Of Mathematics Course Description
 - Highlighting and Note-Taking Math 100 Survey Of Mathematics Course Description
 - Interactive Elements Math 100 Survey Of Mathematics Course Description
 8. Staying Engaged with Math 100 Survey Of Mathematics Course Description
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Math 100 Survey Of Mathematics Course Description
 9. Balancing eBooks and Physical Books Math 100 Survey Of Mathematics Course Description
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Math 100 Survey Of Mathematics Course Description
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Math 100 Survey Of Mathematics Course Description
 - Setting Reading Goals Math 100 Survey Of Mathematics Course Description
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Math 100 Survey Of Mathematics Course Description

- Fact-Checking eBook Content of Math 100 Survey Of Mathematics Course Description
- 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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