

Maths at University Interview Questions

Below is a list of questions that have been asked at interviews (mainly at Oxford/Cambridge, but also other universities too).

Sometimes the interviewer will gently ask such things as:

- Tell us about some maths books that you have been reading.
- Why do you want to study maths?
- What areas of maths do you like? (this is a prompt for the next question which will be on that topic!)

Mainly (particularly at Oxford/Cambridge) there is little or no gentle chit chat, and straight into the fun stuff like:

- Which is bigger 2^x or x^2 ?
- Draw $y = A(1 - e^{-Bx})^2$
- Differentiate $y = x^{\sin x}$
- Find an approximation to $1^4 + 2^4 + 3^4 + \dots + 100^4$
- Draw $y = \frac{e^\theta}{1 + e^\theta} \sin \theta$ and $x = \frac{e^\theta}{1 + e^\theta} \cos \theta$
- Draw $y = \cos x^{\cos x}$
- Prove $\frac{a}{b} + \frac{b}{a} \geq 2$
- Draw: $y = e^x$, $y = e^{-x}$, $y = \frac{e^x + e^{-x}}{2}$
- Draw $y = \frac{\sin x}{x}$
- Prove $n^7 - n$ is always divisible by 42.
- $(6 + \sqrt{37})^{20} = 4398704651 \dots \bullet 9999999999 437569 \dots$
Can you show why this number is so close to an integer?
- On a plane each individual point can be either red, white or blue. Prove that at some point on the plane two points will be at a distance of one unit apart and the same colour.

Sample Job Interview Math Questions

Susan L. Verhulst, David A. DeCenzo



Sample Job Interview Math Questions:

Decoding **Sample Job Interview Math Questions**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Sample Job Interview Math Questions**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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Table of Contents Sample Job Interview Math Questions

1. Understanding the eBook Sample Job Interview Math Questions
 - The Rise of Digital Reading Sample Job Interview Math Questions
 - Advantages of eBooks Over Traditional Books
2. Identifying Sample Job Interview Math Questions
 - 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 eBook Sample Job Interview Math Questions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Job Interview Math Questions
 - Personalized Recommendations
 - Sample Job Interview Math Questions User Reviews and Ratings
 - Sample Job Interview Math Questions and Bestseller Lists

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