

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.

Interview Math Test

Lingsheng Yao



Interview Math Test:

The book delves into Interview Math Test. Interview Math Test is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Interview Math Test, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Interview Math Test
- Chapter 2: Essential Elements of Interview Math Test
- Chapter 3: Interview Math Test in Everyday Life
- Chapter 4: Interview Math Test in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Interview Math Test. The first chapter will explore what Interview Math Test is, why Interview Math Test is vital, and how to effectively learn about Interview Math Test.
3. In chapter 2, this book will delve into the foundational concepts of Interview Math Test. This chapter will elucidate the essential principles that need to be understood to grasp Interview Math Test in its entirety.
4. In chapter 3, this book will examine the practical applications of Interview Math Test in daily life. The third chapter will showcase real-world examples of how Interview Math Test can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Interview Math Test in specific contexts. The fourth chapter will explore how Interview Math Test is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Interview Math Test. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Interview Math Test.

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