

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

Rosina Ehmann



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 effect 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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