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:

- a) Tell us about some maths books that you have been reading.
- b) Why do you want to study maths?
- c) 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 x²?
- 2. Draw $y = A(1 e^{-Bx})^2$
- Differentiate v = x^{sin x}
- 4. Find an approximation to $1^4 + 2^4 + 3^4 + ... + 100^4$
- 5. Draw $y = \frac{e^{\theta}}{1 + e^{\theta}} \sin \theta$ and $x = \frac{e^{\theta}}{1 + e^{\theta}} \cos \theta$
- 6. Draw $y = \cos x^{\cos x}$
- 7. Prove $\frac{a}{b} + \frac{b}{a} \ge 2$
- 8. Draw: $y = e^x$, $y = e^{-x}$, $y = \frac{e^x + e^{-x}}{2}$
- 9. Draw $y = \frac{\sin x}{x}$
- 10. Prove $n^7 n$ is always divisible by 42.
- 12. 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.

Math Test For Job Interview

Ying-Ying Zheng

Math Test For Job Interview:

Math Test For Job Interview Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Math Test For Job Interview**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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