

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:

1. Which is bigger 2^x or x^2 ?
2. Draw $y = A(1 - e^{-Bx})^2$
3. Differentiate $y = x^{\sin x}$
4. Find an approximation to $1^4 + 2^4 + 3^4 + \dots + 100^4$
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 $\frac{a}{b} + \frac{b}{a} \geq 2$
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.
11. $(6 + \sqrt{37})^{20} = 4398704651 \dots \bullet 999999999999437569 \dots$
Can you show why this number is so close to an integer?
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.

Sample Interview Maths Test

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Evaluation in the Mathematics Classroom Marilyn N. Suydam,1974 *Classroom Assessment for Students with Special Needs in Inclusive Settings* Cathleen G.

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Teamwork Test Prep Grade 5 Reading and Math Drew Johnson, Cynthia Johnson, 2004-04 **Designing Tests for Evaluating Student Achievement** James S. Cangelosi, 1990 **NIE Papers in Education and Work** National Institute of Education (U.S.), 1977

The Woman Question Mary Evans, 1994-06-24 This new edition of **The Woman Question** brings together the most influential analyses of women's position in society to have emerged in the past decade. The discussion encompasses both theoretical issues of identity and the economic and political status of women. It demonstrates the impact of gender not only on how the social world is organized but on how we understand and interpret that world. Recognizing the diversity of women's experiences it pays particular attention to the interactions of race class gender and sexuality. Leading feminists explore the concept of gender difference its impact on women and its representation in culture. They discuss the material realities of women's lives and how these are

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