

## 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.
- $(6 + \sqrt{37})^{20} = 4398704651 \dots + 9999999999 437569 \dots$   
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.

# Math Interview Test

**TD Snyder**



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