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$$e^x = 1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \dots$$

Thinking of a degree that's rich in maths?

Think of Further Maths

$$e^{i\pi} + 1 = 0$$

If you are thinking of taking a maths-rich degree, think of taking Further Maths.

Rosa Rajendran did:

"The Further Maths A level was important not only in helping me to get into university - but now I am actually at university, I realise how beneficial it is to my course."

To find out more about Further Maths, visit:

www.furthermaths.org.uk

$$\begin{pmatrix} \cos\theta & -\sin\theta \\ \sin\theta & \cos\theta \end{pmatrix}\begin{pmatrix} \cos\phi & -\sin\phi \\ \sin\phi & \cos\phi \end{pmatrix} = \begin{pmatrix} \cos(\theta+\phi) & -\sin(\theta+\phi) \\ \sin(\theta+\phi) & \cos(\theta+\phi) \end{pmatrix}$$

ACCESS TO FURTHER mathematics
www.furthermaths.org.uk

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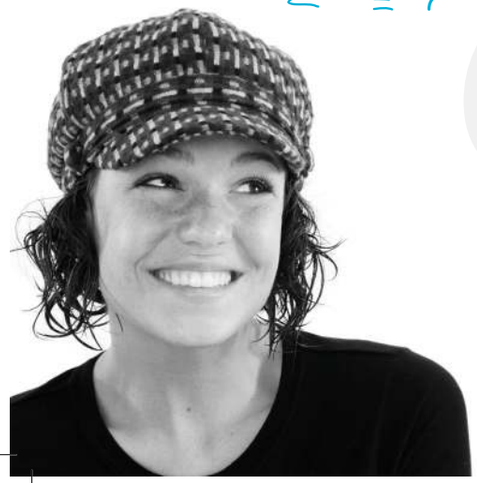
$\frac{3\pi}{4} > \arg(z-2-j) > \pi/4$

Did you know that you can study a second A or AS level in maths called Further Maths?

What is Further Mathematics?

Further Maths is an AS/A level which broadens and deepens the maths covered in AS/A level Maths. It develops your mathematical ability and introduces you to new topics, such as matrices and complex numbers, which are vital for maths-rich degrees in areas such as sciences, engineering, statistics and computing, as well as mathematics itself. Further Maths is usually studied alongside AS/A level Maths, but if you've already started your A levels, it may not be too late. You can study AS level Further Maths in year 13, alongside A level Maths. You can even study it online during a gap-year.

$z^n = r^n(\cos n\theta + j\sin n\theta)$

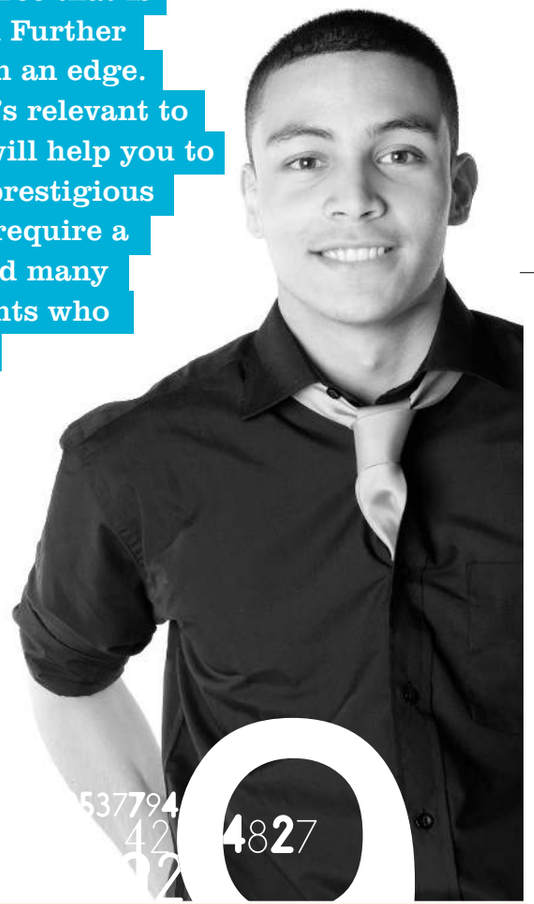


How can it help me?

Further Maths will introduce you to fascinating mathematical concepts. It will develop your problem solving skills, which will help to boost your performance in AS/A level Maths.

If you plan to apply for any degree that is rich in maths, a qualification in Further Maths will give your application an edge. You will study more maths that's relevant to your university course, which will help you to hit the ground running. Some prestigious university degree courses now require a Further Maths qualification, and many university courses prefer students who have studied Further Maths to at least AS level.

$\sum_{r=1}^{n} r^3 = \frac{1}{4}n^2(n+1)^2$



To find out more, visit: **www.furthermaths.org.uk**