

**12th March**

Corbettmaths

Make CosA the subject of

$$a^2 = b^2 + c^2 - 2bc\cos A$$

Work out the gradient of the curve  
 $y = x^3(8 - x)$  at the point on the curve  
where  $x = -\frac{1}{2}$

Work out

$$\left(7^{\frac{1}{2}} + 7^{\frac{3}{2}}\right)^4$$

Find the transformation matrix that is  
equivalent to

- a reflection in the line  $y = x$

followed by

- a reflection in the y-axis