

**13th March**

Corbettmaths

Make  $c$  the subject of

$$\frac{3}{abc} = 8 - \frac{7}{ab}$$

$$y = x^3 + 2x$$

Work out the values of  $x$  at which the rate of change of  $y$  with respect to  $x$  is 50.

Solve  $16^x = 4^{10-x}$

The  $n$ th term of a sequence is

$$n^2 - 6n + 7$$

The difference between two consecutive terms is 25.

Work out the two terms

$$4\sin^2x - 6\cos^2x \equiv A + \sin^2x$$

Work out the values of  $A$  and  $B$ .