

12th December

Corbettmaths

Solve $12x^2 + 25x + 12 = 0$

$y = (x^4 - 2)^2$

Work out $\frac{dy}{dx}$

Show that $(2x + 5)$ is a factor of
 $2x^3 + x^2 - 16x - 15$

The n th term of a sequence is $n^2 + 6n$
Two consecutive terms in the sequence
have a difference of 35

Work out the two terms.

Show that

$\sin x - \sin x \cos^2 x \equiv \sin^3 x$