

6th May

Corbettmaths

Write down the exact value of $\cos 540^\circ$ The first two terms in a linear sequence are $-3 + 2\sqrt{6}$ and $\sqrt{6}$

What is the fourth term in the sequence?

 $A(-5, -2)$ and $B(31, -20)$ are joined by a straight line.

P is a point on AB.

AP : PB is 7 : 2

Work out the coordinates of the point P.

A curve has the equation $y = x^3 + ax^2 - 8$ where a is a constant.The gradient of the curve when $x = 2$ is eleven times the gradient of the curve when $x = -2$ Work out the value of a