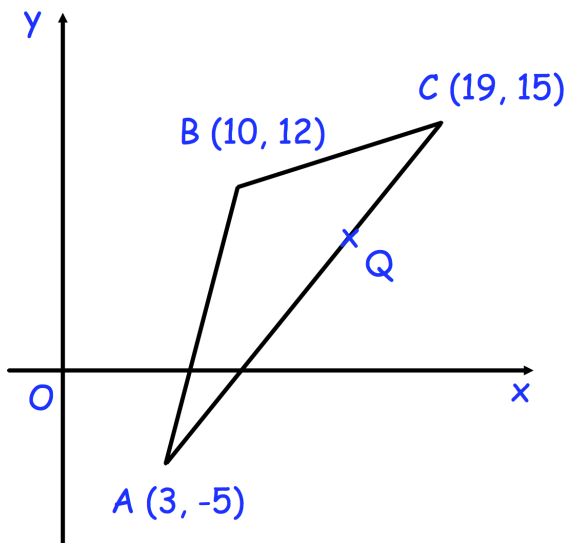


**17th October**

Corbettmaths

The first two term terms in a linear sequence are  $10 - 2\sqrt{3}$  and  $\sqrt{3}$

What is the fourth term in the sequence?



Q is a point on AC such that  $AQ:QC = 1:3$

Work out the length of BQ.

A curve has equation  $y = 2x^2 + x - 11$

At point Q on the curve, the tangent is parallel to the line  $y = 5x - 1$

Work out the coordinates of Q.

Use Pascal's triangle to expand

$$(x + y)^5$$