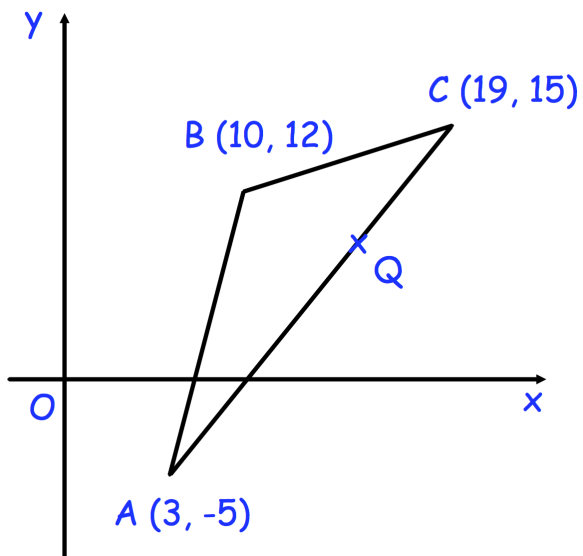


8th May



Corbettmaths

Shown below is triangle ABC



Q is a point on AC such that
 $AQ:AC = 3:4$

Work out the equation of the straight line
that passes through BQ

Find the range of values of x for which
the function

$$f(x) = 3x^2 - 6x + 8$$

is decreasing

Solve $x^3 - 12x^2 + 29x + 42 = 0$