

**11th November**

Corbettmaths

Expand and simplify fully

$$(3 + 5\sqrt{2})(5 - \sqrt{2})$$

Use Pascal's triangle to expand

$$(3 + y)^4$$

The  $n$ th term of a sequence is  $\frac{200 - 2n}{70 + 5n}$ Write down the limiting value of the sequence as  $n \rightarrow \infty$ 

A curve has equation

$$y = 1 + x - x^2$$

Find the coordinates of the maximum point.