

27th February

Corbettmaths

Expand and simplify $(5\sqrt{2} - 1)^3$

Jason picks a 5-digit number that is less than 80000.
The first digit is odd.
The fourth and fifth digits are equal.

How many different numbers can Jason pick?

The n th term of a sequence is

$$\frac{1800 - 9n}{1800 + 2n}$$

Write down the limiting value of the sequence $n \rightarrow \infty$

$y = 4x^2 + px$ where p is a constant

The value of $\frac{dy}{dx}$ when $x = 3$ is five times the value of $\frac{dy}{dx}$ when $x = -1$

Work out the value of p