

27th April



Corbettmaths

The line L has equation  $y = 8 - \frac{1}{2}x$

Find the equation of the line perpendicular to L which passes through (4, 4)

Expand and simplify

$$(8 - 2\sqrt{3})^2$$

The equation  $4x^2 - kx = -6$  has equal real roots.

Find k.

$$\int (x - 4)^3 dx$$

A sequence is defined as

$$u_1 = a$$

$$u_{n+1} = 9u_n + 5$$

Is  $\sum_{r=1}^4 a_r$  divisible by 3?