

15th May

Corbettmaths

A line L1 has equation
 $5x + 2y + 1 = 0$.

Find the equation of the line
perpendicular to L1 passing through
the point (3, 3)

A curve has equation $y = 2x^2 - 3x^3$

Find the equation of the tangent to
the curve at the point (1, -1).

A sequence a_1, a_2, a_3, \dots is defined as

$$a_1 = k$$

$$a_{n+1} = 3a_n + 1$$

Find the value of k given that $a_2 = a_3$

Shown is the curve $y = f(x)$.

Sketch

(a) $y = -f(x)$

(b) $y = f(x - 2)$

