

8th May

Corbettmaths

Factorise completely

$$x^3 - 7x^2 - 18x$$

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

$$a_1 = 3$$

$$a_{n+1} = (a_n + 2)^2$$

Find a_4

The line L has equation

$$2x + 5y - 7 = 0$$

Find an equation of the line perpendicular to L, which passes through the point (5, 5).

Given that

$$y = 9x^2 - \frac{2}{x^4}$$

Find

$$\frac{dy}{dx}$$

Find

$$\int y \, dx$$