

23rd April

Corbettmaths

Factorise completely

$$x^3 - 10x^2 + 24x$$

Find the values of k for which the equation

$$x^2 - 9kx + 10 = 0$$

has real, equal roots.

The straight line $y = \frac{3}{4}x + 8$ crosses the x -axis at the point A .The point B has coordinates $(-2, 7)$.Find the mid-point of AB .

112, 126, 140, ...

Find the sum of the 50th and 80th terms of this arithmetic sequence.

Given that

$$f'(x) = 5x^2 + \frac{5}{x^6}$$

Find $f(x)$