

Higher Maths
SQA 2019 Paper 2
Question 13



For a function, f , defined on the set of real numbers, \mathbb{R} , it is known that

- the rate of change of f with respect to x is given by $3x^2 - 16x + 11$
- the graph with equation $y = f(x)$ crosses the x -axis at $(7,0)$.

Express $f(x)$ in terms of x .

5

Answer:

$$f(x) = x^3 - 8x^2 + 11x - 28$$