

SQA Past paper questions

2017 - Paper 2 - Question 7

- (a) Find the x-coordinate of the stationary point on the curve 4 with equation $v = 6x - 2\sqrt{x^3}$.
- (b) Hence, determine the greatest and least values of y in the interval $1 \le x \le 9$.

Click here for video solution.

2015 - Paper 1 - Question 22

The function $f(x) = \frac{4}{x^2} + x$ is defined on the domain x > 0, $x \in \mathbb{R}$, the set of real

Find the maximum and minimum values of f(x) on the closed interval $1 \le x \le 4$.

Click here for video solution.



2012 - Paper 2 - Question 3

A function f is defined on the domain $0 \le x \le 3$ by $f(x) = x^3 - 2x^2 - 4x + 6$. Determine the maximum and minimum values of f.

Click here for video solution.

2005 - Paper 1 - Question 8

A function f is defined by the formula $f(x) = 2x^3 - 7x^2 + 9$ where x is a real number.

- 5 (a) Show that (x-3) is a factor of f(x), and hence factorise f(x) fully.
- (b) Find the coordinates of the points where the curve with equation y = f(x)crosses the x- and y-axes.
- (c) Find the greatest and least values of f in the interval $-2 \le x \le 2$. 5

Click here for video solution.

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