

Maths.scot



National 5 Maths Functions

SQA past paper and specimen paper
questions and answers by topic

SQA material is copyright © Scottish Qualifications Authority
and has been reproduced by kind permission of SQA.

This resource is free to distribute and use on a non-commercial basis.

Visit [Maths.scot](https://www.maths.scot) for full worked solutions to each of these questions.



National 5 Maths
SQA 2015 Paper 2
Question 2

A function is defined as $f(x) = 3x + 2$.

Given that $f(a) = 23$, calculate a .

2

Answer:

$$a = 7$$

National 5 Maths
SQA 2016 Paper 1
Question 9

The function $f(x)$ is defined by $f(x) = \frac{2}{\sqrt{x}}$, $x > 0$.

Express $f(5)$ as a fraction with a rational denominator.

2

Answer:

$$\frac{2\sqrt{5}}{5}$$

National 5 Maths
SQA 2017 Paper 1
Question 1

Given that $f(x) = x^2 + 3x$, evaluate $f(-5)$.

2

Answer:

10

National 5 Maths
SQA 2018 Paper 2
Question 6

A function is defined as $f(x) = 5 + 4x$.

Given that $f(a) = 73$, calculate a .

2

Answer:

$$a = 17$$

National 5 Maths
SQA 2019 Paper 1
Question 1

Given that $f(x) = 5x^3$, evaluate $f(-2)$.

2

Answer:

-40

National 5 Maths
SQA 2021 Paper 1
Question 16

The function $f(x)$ is defined by $f(x) = 4 \sin 3x^\circ$.

Evaluate $f(90)$.

2

Answer:

−4

National 5 Maths
SQA 2022 Paper 1
Question 2

Given that $f(x) = x^3 - 2$, evaluate $f(-3)$.

2

Answer:

-29