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National 5 Maths Functions

SQA past paper and specimen paper questions and answers by topic

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

Given that $f(a) = 23$, calculate a. **2**

Answer:

$a = 7$

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

Express $f(5)$ as a fraction with a rational denominator. **2**

Answer:

$$\dfrac{2\sqrt{5}}{5}$$

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

2

Answer:

10

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

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

2

Answer:

$a = 17$

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

2

Answer:

−40

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

Evaluate $f(90)$. **2**

Answer:

−4

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

2

Answer:

−29