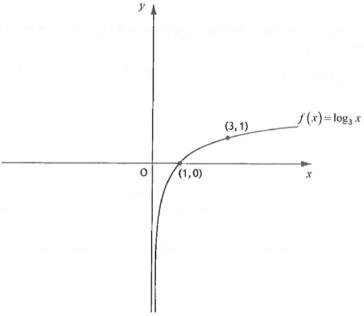
SQA Past paper questions

2023 - Paper 1 - Question 9

The diagram shows the graph of the function $f(x) = \log_3 x$, where x > 0.

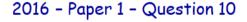


The inverse function, f^{-1} , exists.

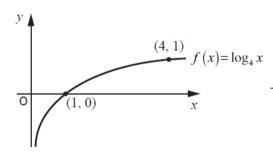
On the diagram in your answer booklet, sketch the graph of $y = f^{-1}(x) - 1$.

Click here for video solution.





The diagram below shows the graph of the function $f(x) = \log_4 x$, where x > 0.



The inverse function, f^{-1} , exists.

On the diagram in your answer booklet, sketch the graph of the inverse function.

Click <u>here</u> for video solution.



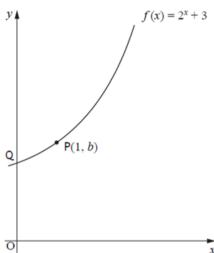
Rig Hur Maths

2015 - Paper 1 - Question 13

The function $f(x) = 2^x + 3$ is defined on \mathbb{R} , the set of real numbers.

The graph with equation y = f(x) passes through the point P(1, b) and cuts the y-axis

at Q as shown in the diagram.



(a) What is the value of b?

(i) Copy the above diagram.

On the same diagram, sketch the graph with equation $y = f^{-1}(x)$.

3 (ii) Write down the coordinates of the images of P and Q.

(c) R (3,11) also lies on the graph with equation y = f(x).

Find the coordinates of the image of R on the graph with equation y = 4 - f(x + 1).

Click here for video solution.

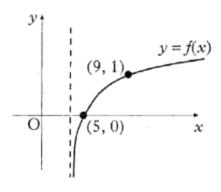


2005 - Paper 1 - Question 7

The function f is of the form $f(x) = \log_b (x - a)$. The graph of y = f(x) is shown in the diagram.

 $\overline{(a)}$ Write down the values of a and b.

(b) State the domain of f.



Click here for video solution.



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