

Reflecting and Translating Function

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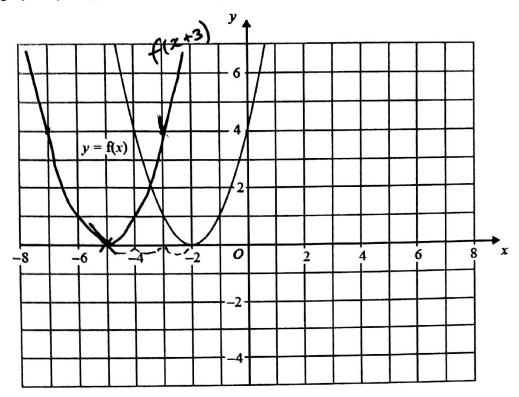
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1) Reflecting and Translating Functions: Easier

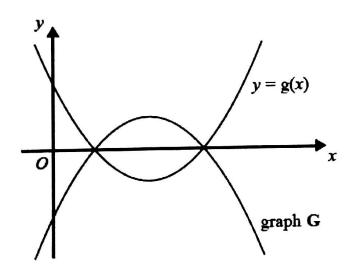
Q1. The graph of y = f(x) is shown on the grid.



(a) On the grid above, sketch the graph of y = f(x + 3)

(2)

The graph of y = g(x) is shown below.



The graph **G** is the reflection of y = g(x) in the x-axis.

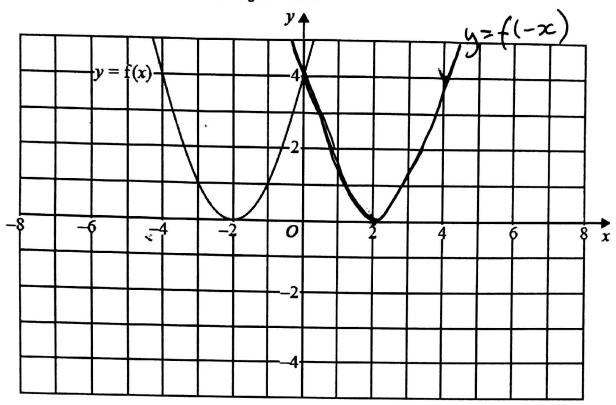
(b) Write down an equation of graph G.

$$y = -g(x)$$

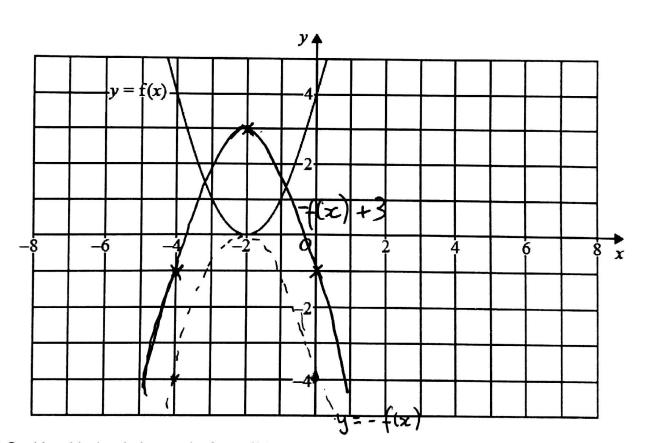


1) Reflecting and Translating Functions: Medium

Q2. The graph of y = f(x) is shown on both grids below.



(a) On the grid above, sketch the graph of y = f(-x)



(b) On this grid, sketch the graph of y = -f(x) + 3

(1)



1) Reflecting and Translating Functions: Harder

Q3.

The graph of y = f(x) is transformed to give the graph of y = -f(x + 3)The point A on the graph of y = f(x) is mapped to the point P on the graph of y = -f(x + 3)

The coordinates of point A are (9, 1) Find the coordinates of point P.

$$f(x) - f(x) - f(x+3)$$

 $(9,1) (9,-1) (6,-1)$

(Total for question is 2 marks)