Reflecting and Translating Functio

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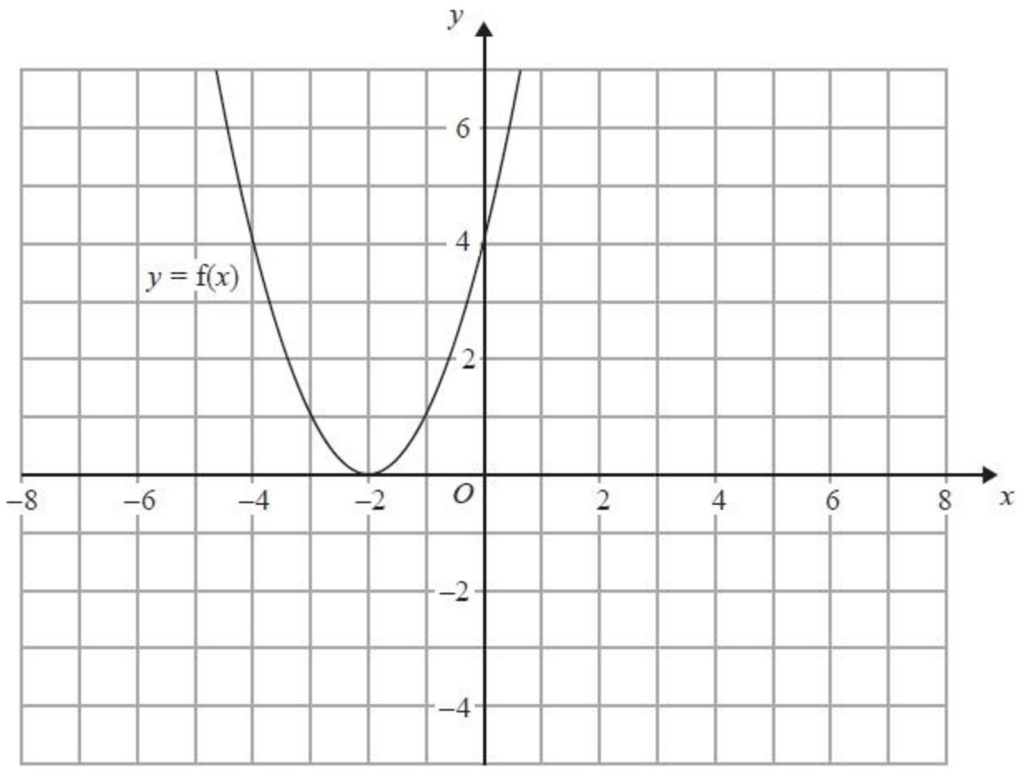
1) Reflecting and Translating Functions: Easier

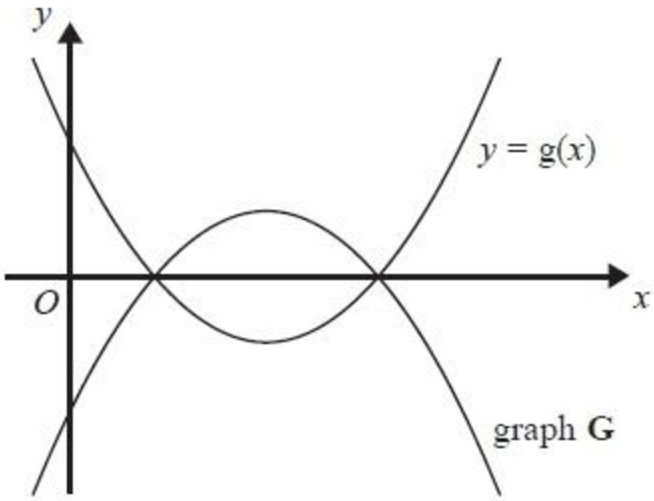
Q1. The graph of $y = f(x)$ is shown on the grid.



(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.

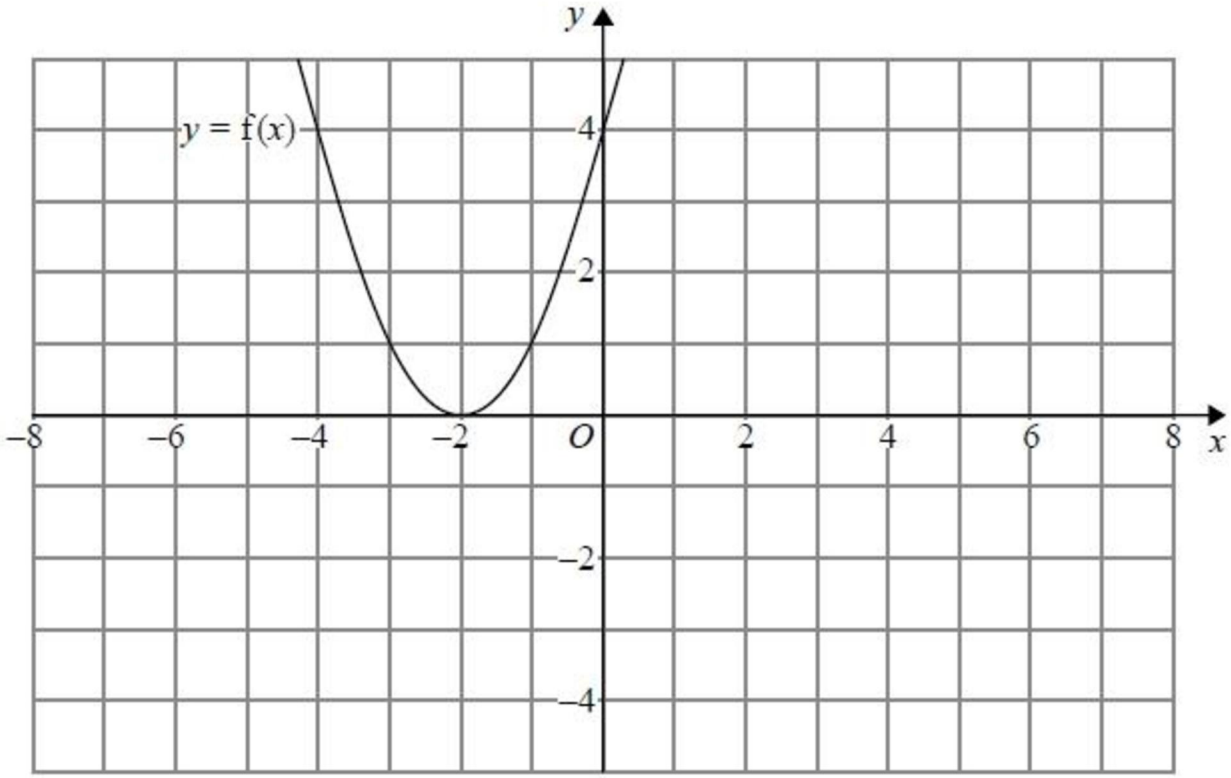
(b) Write down an equation of graph **G**.

.....

(1)

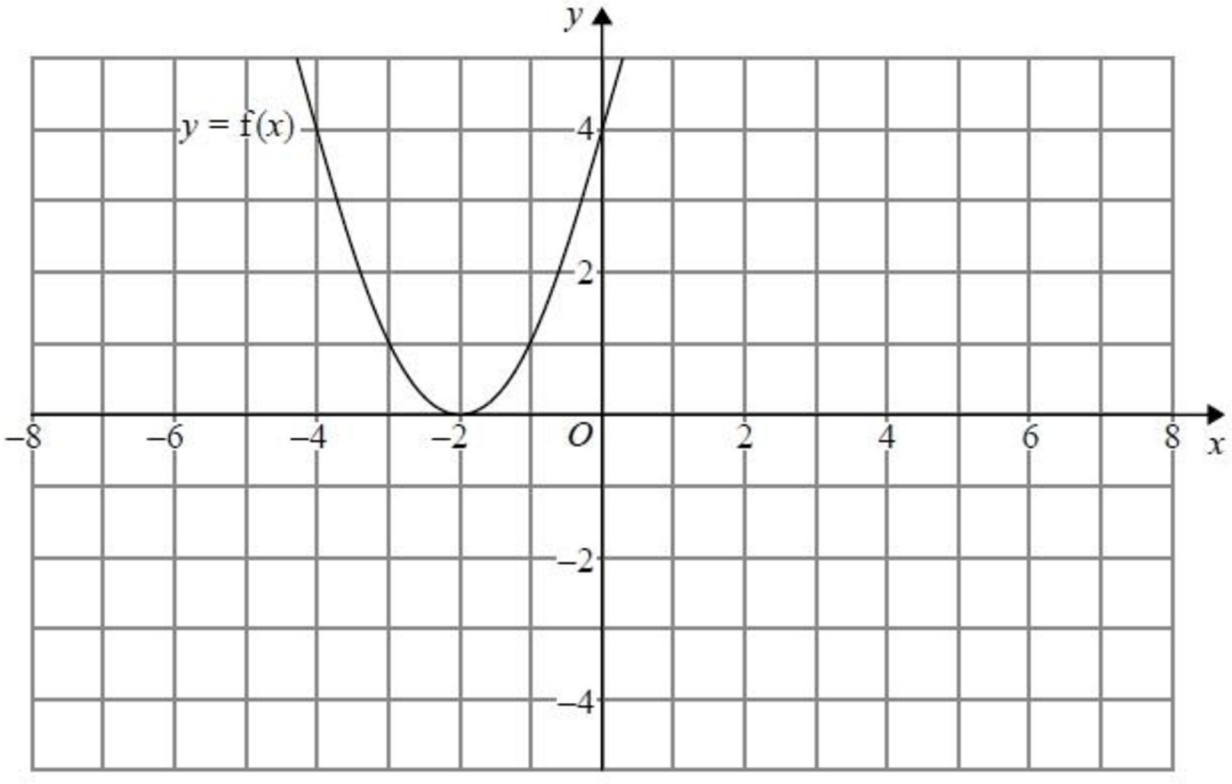
1) Reflecting and Translating Functions: Medium

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



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

(1)



(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.

(..... , ...)

(Total for question is 2 marks)