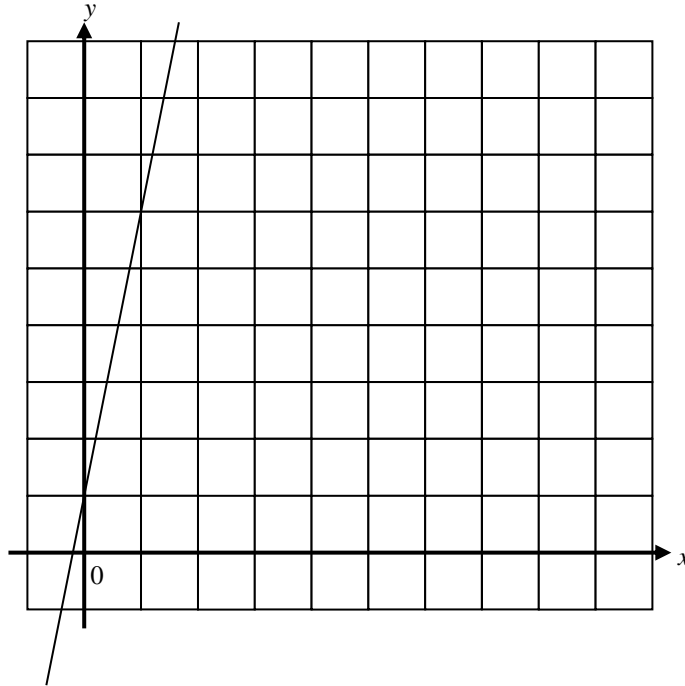


NAME: SCHOOL:

INSERT SHEET for question 11. HAND THIS SHEET IN WITH YOUR OTHER ANSWERS. If you need more space for working, use file paper.

- 11** On the axes below the graph of $y = 5x + 1$ has been drawn.



- a) Draw on the same axes the graph of $y = 8 - 2x$. [2]
 b) Write down the solution to the simultaneous equations

$$\begin{aligned} y &= 5x + 1 \\ y &= 8 - 2x \end{aligned}$$

Answer: $x = \dots\dots\dots, y = \dots\dots\dots$ [2]

- c) The points $(0,0)$, $(6,1)$ and the answer to part b) are the vertices of a triangle. Find the area of the triangle.

Answer: Area is $\dots\dots\dots$ [3]

- d) The triangle is rotated 90° clockwise about the point $(4,0)$. Find the coordinates of the image of the point $(6,1)$.

Answer: $(\dots\dots\dots, \dots\dots\dots)$ [2]