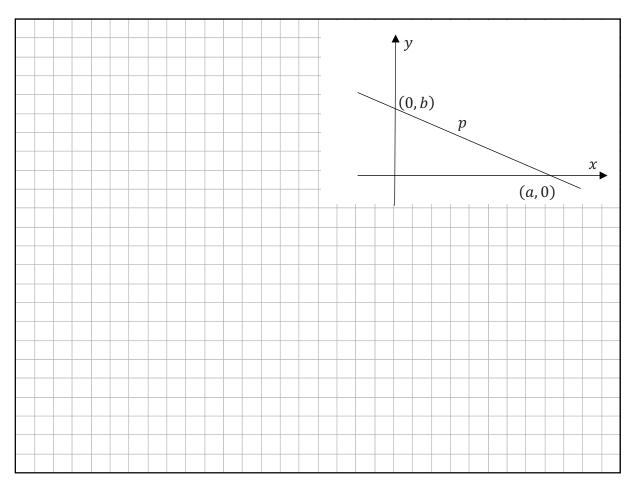
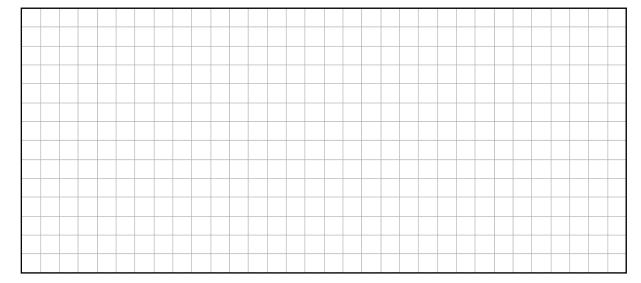
(a) The line p makes an intercept on the x-axis at (a,0) and on the y-axis at (0,b), where $a,b\neq 0$.

Show that the equation of p can be written as $\frac{x}{a} + \frac{y}{b} = 1$.



- **(b)** The line l has a slope m, and contains the point A(6,0).
 - (i) Write the equation of the line l in terms of m.



(ii) The line l cuts the line k: 4x + 3y = 25 at P. Find the co-ordinates of P in terms of m. Give each co-ordinate as a fraction in its simplest form.

