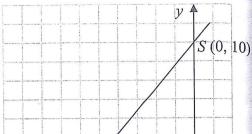
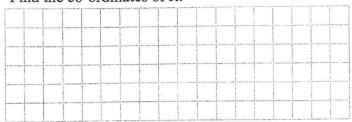
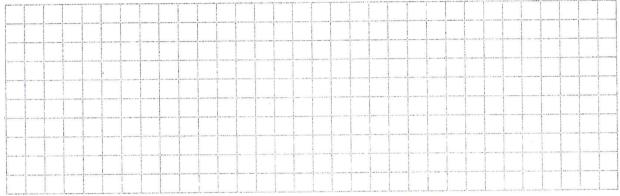
The line RS cuts the x-axis at the point R and the y-axis at the point S(0, 10), as shown. The area of the triangle ROS, where O is the origin, is  $\frac{125}{3}$ .



Find the co-ordinates of R. (a)



Show that the point E(-5, 4) is on the line RS. (b)



A second line y = mx + c, where m and c are positive constants, passes through the point E (c) and again makes a triangle of area  $\frac{125}{3}$  with the axes. Find the value of m and the value of c.

