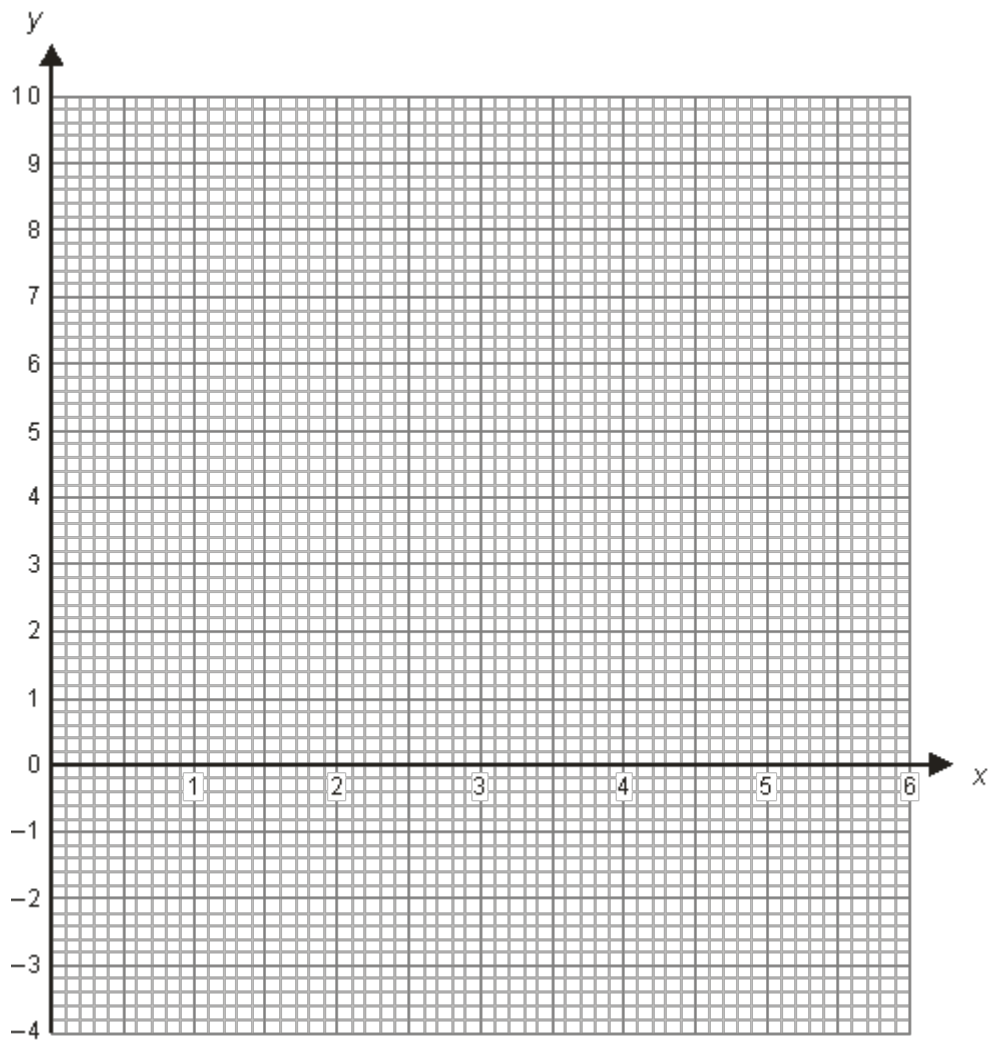


**Q1.** (a) On the grid draw the graph of  $y = x(x - 3)$



(2)

(b) Using your result for (a), or otherwise, solve the simultaneous equations

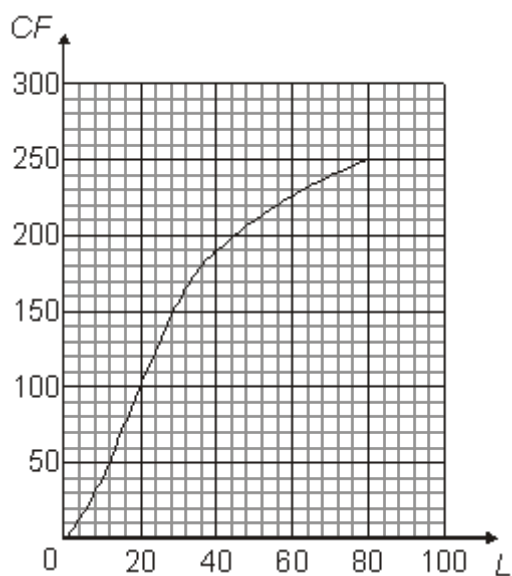
$$y = x(x - 3)$$

$$x^2 + y^2 = 9$$

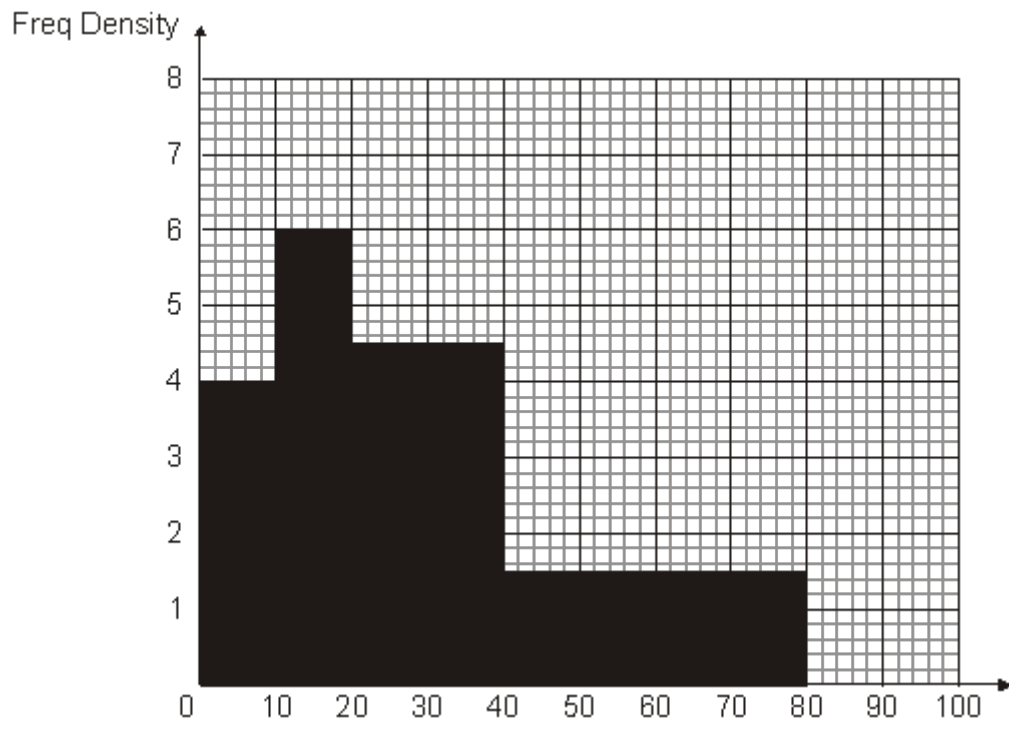
(3)  
(Total 5 marks)

M1.

	Working	Answer	Mark	Additional Guidance
(a)		Smooth curve	2	<b>B1</b> correct plot of their values <b>B1</b> smooth curve through their points
(b)		$x = 3$ $y = 0$	3	<b>M1</b> attempts to draw circle at origin <b>M1</b> uses radius 3 cm (using graph scale correctly) <b>A1</b> cao <b>OR</b> <b>B1</b> for substituting a value of $x$ into $y = x(x - 3)$ and $x^2 + y = r^2$ <b>B1</b> for substituting $y$ into $x = 3$ into $x(x - 3)$ and $x^2 + y = r^2$ <b>B1</b> cao
				<b>Total for Question: 5 marks</b>



OR



Resource currently unavailable.