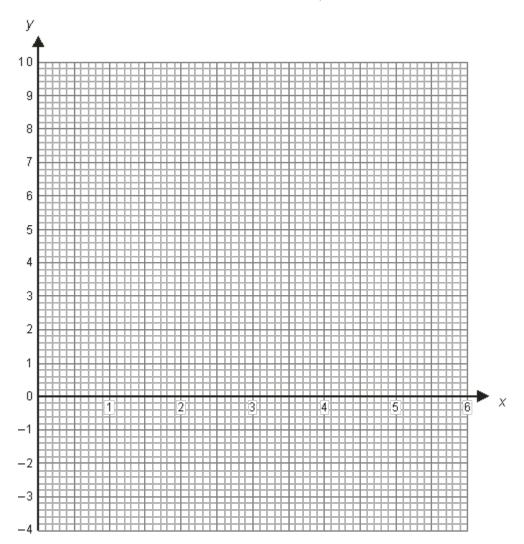
**Q1.** (a) On the grid draw the graph of y = x(x - 3)



(2)

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

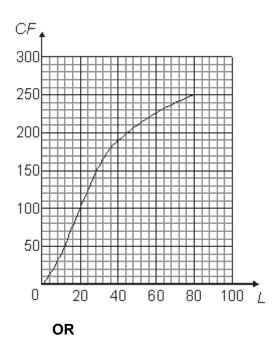
$$y = x(x - 3)$$

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

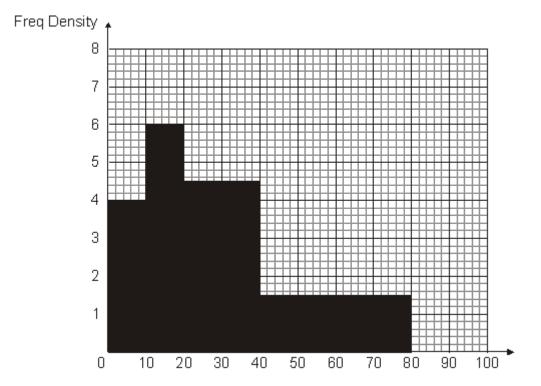
(3) (Total 5 marks)

## M1.

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



## **Edexcel Maths GCSE - Graphs of Circles (FH)**



Resource currently unavailable.