	It is required to solve the equation $x^2 - 3x + 1 = 0$ graphically by drawing a straight line with equation $y = mx + c$ on the diagram, where m and c are constants.

The diagram in the Printed Answer Booklet shows part of the graph of $y = x^2 - 4x + 3$.

equation
$$y = mx + c$$
 on the diagram, where m and c are constants.
Find the values of m and c .

(b) Use the graph to find approximate values of the roots of the equation
$$x^2 - 3x + 1 = 0$$
. [2]

(b)	Use the graph to	find approxim	ate values of the	ne roots of the e	equation x^2 –	3x+1=0.	2
(c)	By shading, or o	therwise, indic	ate clearly the	regions where	all of the follo	owing inequ	ualitie

are satisfied. You should use the values of
$$m$$
 and c found in part (a).

 $x \le 4$ $v \le x^2 - 4x + 3$ $v \ge mx + c$

