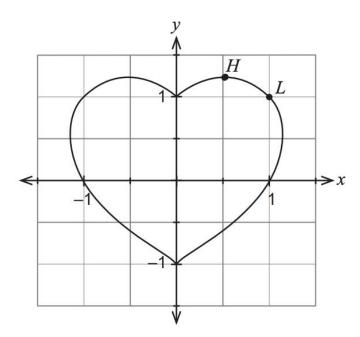
The graph of $(x^2 + y^2 - 1)^3 = x^2y^3$ is shown below.



(a) By implicitly differentiating the given equation, obtain an equation relating x, y and $\frac{dy}{dx}$ (3 marks)

(Note: Do **not** attempt to obtain $\frac{dy}{dx}$ as the subject of this equation.)

(b)	Determine the exact slope of the tangent to the curve at the point $L(1,1)$.	(2 marks)
At point H on the graph the curve is horizontal.		
(c)	Determine the coordinates of point H , correct to 0.001.	(3 marks)