A curve has equation $y = \frac{\ln x}{x}$.		
(i)	Find the <i>x</i> -coordinate of the point where the curve crosses the <i>x</i> axis.	[2]
(ii)	The points A and B lie on the curve and have x coordinates 2 and 4. Show that the line AB is paralle the x -axis.	el to [2]
(iii)	Find the coordinates of the turning point on the curve.	[4]
(iv)	Determine whether this turning point is a maximum or a minimum.	[5]

In this question you must show detailed reasoning.