

- 11 Fig. 11 shows the graph of $y = x^2 - 4x + x \ln x$.

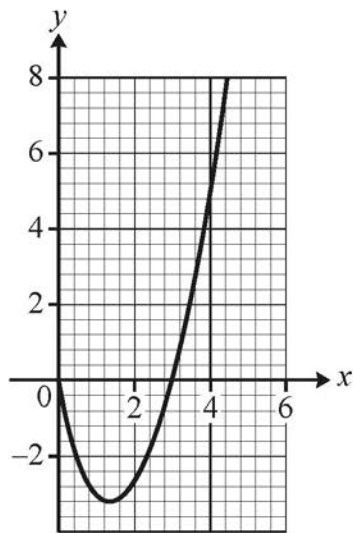


Fig. 11

- (a) Show that the x -coordinate of the stationary point on the curve may be found from the equation $2x - 3 + \ln x = 0$. [4]
- (b) Use an iterative method to find the x -coordinate of the stationary point on the curve $y = x^2 - 4x + x \ln x$, giving your answer correct to 4 decimal places. [4]