

- Points A and B lie on the curve $y = x^2 - 4x + 7$. Point A has coordinates $(4, 7)$ and B is the stationary point of the curve. The equation of a line L is $y = mx - 2$, where m is a constant.

(i) In the case where L passes through the mid-point of AB , find the value of m . [4]

[illegible]

(ii) Find the set of values of m for which L does not meet the curve.

[4]

[illegible]