

DO NOT WRITE IN THIS AREA

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11 The diagram shows the point A and the point B

$\times A$

$\times B$

- (a) Construct the locus of all points that are 4 cm from A (1)
- (b) Using ruler and compasses, and **showing all your construction lines**, construct the perpendicular bisector of AB (2)

The region R consists of all the points that are nearer to B than to A and that are less than 4 cm from A

- (c) Show, by shading, the region R
Label the region R (1)

(Total for Question 11 is 4 marks)

