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(i) Show that the equation of the perpendicular bisector of AB is $2y = 13 - x$.

[4]

This image shows a full page of white paper with horizontal dotted lines. The lines are evenly spaced and run across the width of the page, providing a guide for handwriting practice. There are no margins, text, or other markings on the page.

The perpendicular bisector of AB meets the curve at C and D .

- (ii) Find, by calculation, the distance CD , giving your answer in the form $\sqrt{\left(\frac{p}{q}\right)}$, where p and q are integers. [5]

[illegible]