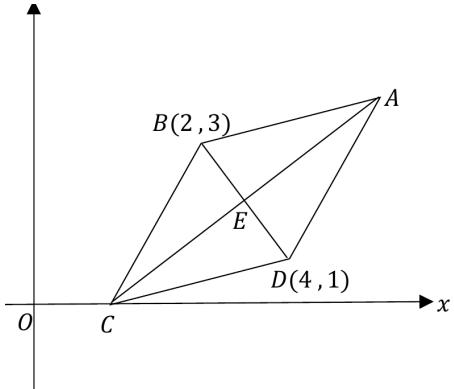


Question 1

The diagram shows a rhombus $ABCD$ in which B is $(2, 3)$, D is $(4, 1)$ and C lies on the x -axis. The diagonals AC and BD meet at E .



Find

- the equation of AC
- the coordinates of A and of C
- the area of the rhombus $ABCD$ and hence, find the perpendicular distance from C to AB .