

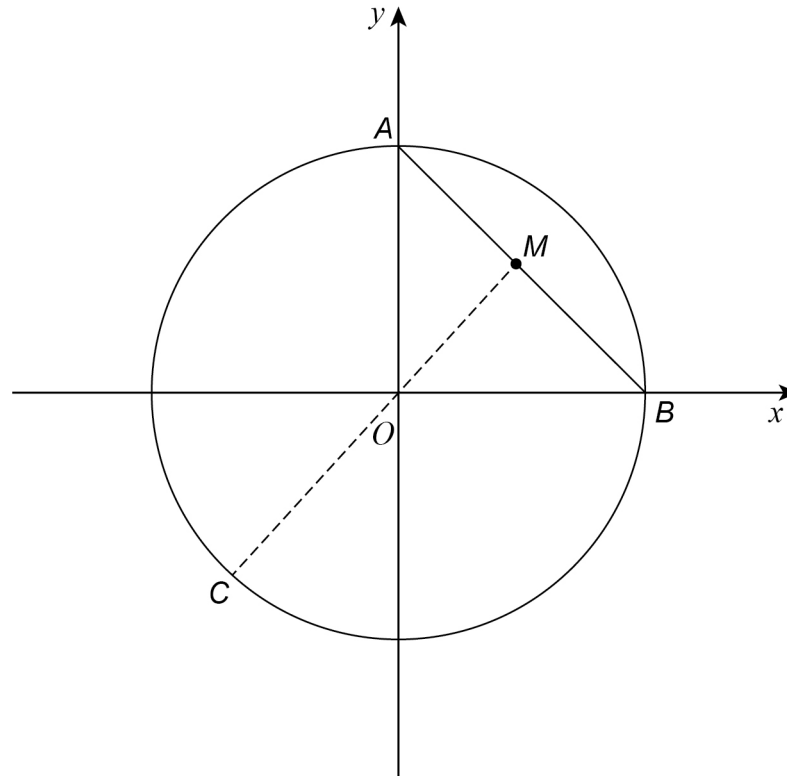
28 A, B and C are points on the circle $x^2 + y^2 = 36$ as shown.

A is on the y -axis.

B is on the x -axis.

M is the midpoint of AB .

COM is a straight line.



28 (a) Show that the coordinates of A are $(0, 6)$

[1 mark]

28 (b) Work out the coordinates of B .

[1 mark]

Answer (_____ , _____)



28 (c) Show that the equation of the straight line passing through C , O and M is $y = x$

[2 marks]

28 (d) Work out the coordinates of C .
Give your answers in surd form.

[3 marks]

Answer (_____ , _____)

Turn over for the next question

7

Turn over ►

