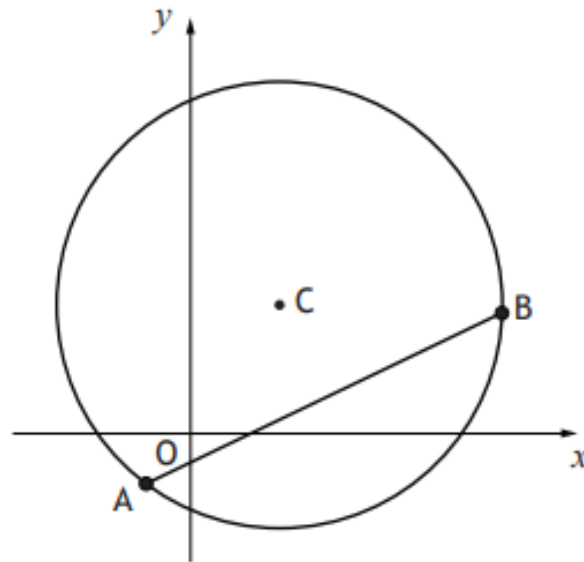


Specimen P2 Q5

5.



Points $A(-1, -1)$ and $B(7, 3)$ lie on the circumference of a circle with centre C , as shown in the diagram.

(a) Find the equation of the perpendicular bisector of AB .

CB is parallel to the x -axis.

(b) Find the equation of the circle, passing through A and B , with centre C .

Answers

(a) $y - 1 = -2(x - 3)$

(b) $(x - 2)^2 + (y - 3)^2 = 25$