Q1.
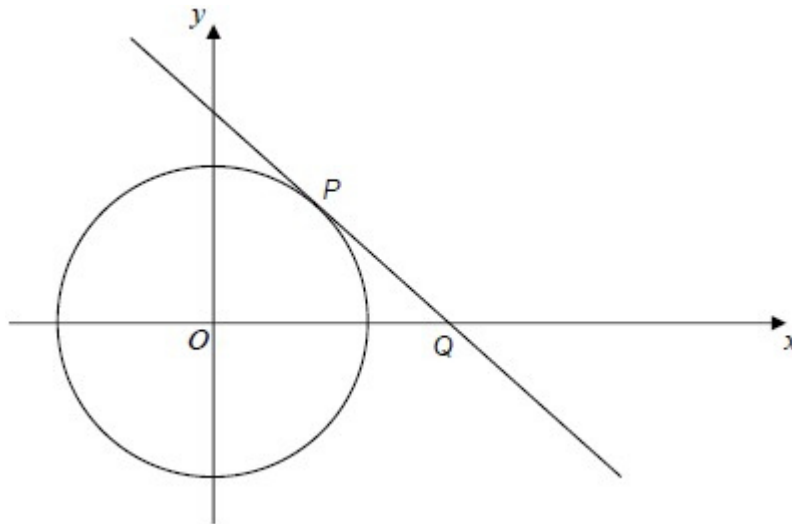
The diagram shows the circle $x^2 + y^2 + 10$

P lies on the circle and has x-coordinate 1

The tangent at P intersects the x-axis at Q.

Not drawn accurately

Work out the coordinates of Q.

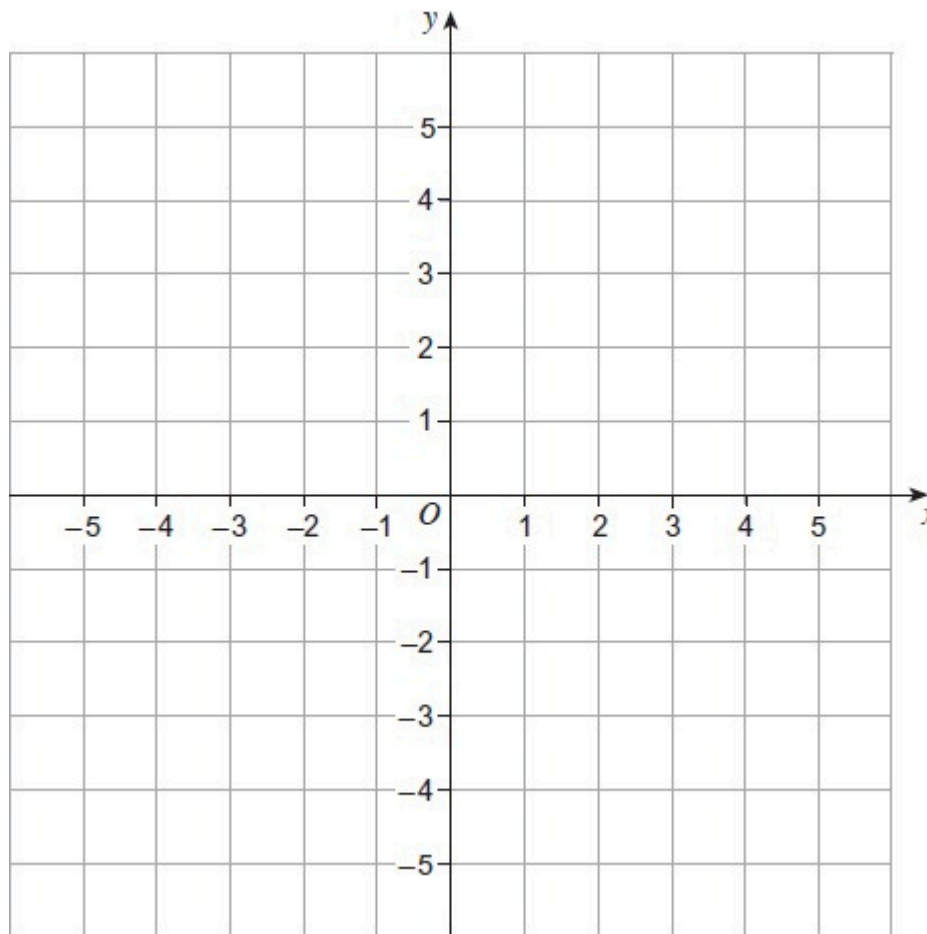..

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Answer (........................, ...)

(Total 5 marks)

Q2.

(a)   Draw the locus of all points on the grid which are   4 units from (0, 0)

(1)

(b)   Write down the equation of this locus.

Answer ....

(1)

(Total 2 marks)