

Higher Maths
SQA 2024 Paper 1
Question 13



P and Q are the points (4, 10) and (6, 2) respectively.

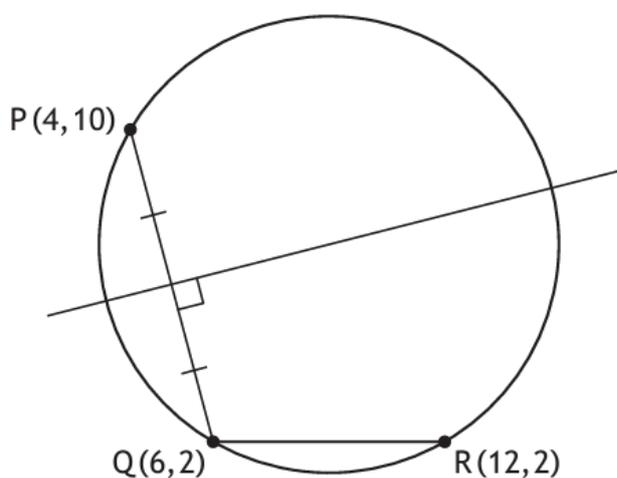
(a) Find the equation of the perpendicular bisector of PQ.

4

The point R has coordinates (12, 2).

A circle passes through the points P, Q and R.

The chord QR is horizontal.



(b) Find the equation of the circle.

4

Answers:

(a) $4y = x + 19$
or equivalent

(b) $(x - 9)^2 + (y - 7)^2 = 34$