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2-1-1-1 a

Diagram NOT accurately drawn

- *P*, *Q* and *R* are points on a circle. *O* is the centre of the circle. *RT* is the tangent to the circle at *R*. Angle $QRT = 56^{\circ}$.
- (a) Find
 - (i) the size of angle RPQ,

(ii) the size of angle ROQ.

0 (2)

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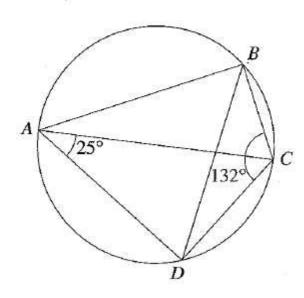


Diagram NOT accurately drawn

A, B, C and D are points on a circle. AC is a diameter of the circle. Angle $CAD = 25^{\circ}$ and angle $BCD = 132^{\circ}$.

(b) Calculate

(i) the size of angle BAC,

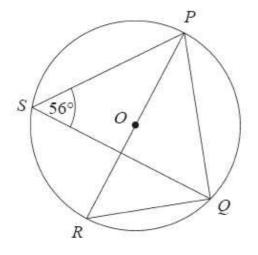
(ii) the size of angle ABD.

0 (3)

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Diagram NOT accurately drawn



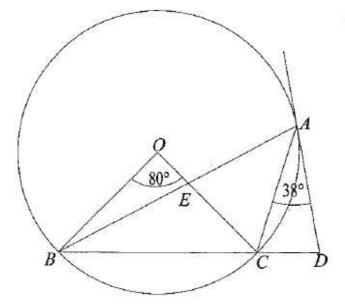
P, *Q*, *R* and *S* are points on the circumference of a circle, centre *O*. *PR* is a diameter of the circle. Angle $PSQ = 56^{\circ}$.

(a) Find the size of angle PQR.Give a reason for your answer.

(b) Find the size of angle *PRQ*. Give a reason for your answer.

(c) Find the size of angle POQ.Give a reason for your answer.

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Points A, B and C lie on the circumference of a circle with centre O. DA is the tangent to the circle at A. BCD is a straight line. OC and AB intersect at E.

Angle $BOC = 80^\circ$. Angle $CAD = 38^\circ$.

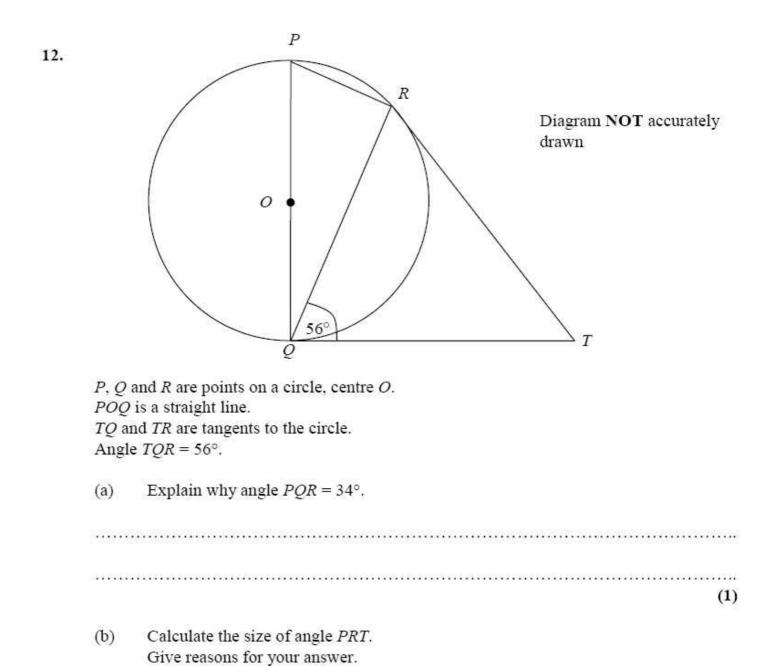
(a) Calculate the size of angle BAC.

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(b) Calculate the size of angle OBA.

.....° (3)

(c) Give a reason why it is not possible to draw a circle with diameter ED through the point A.



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