

Properties of circle Question Bank

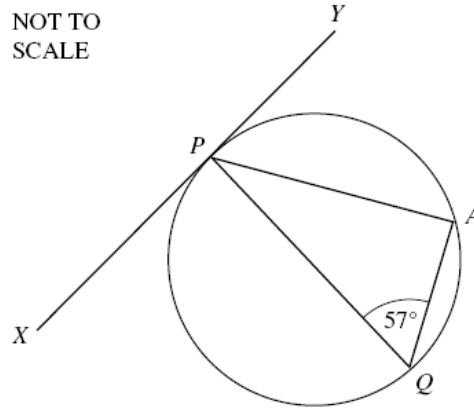
(1) In the diagram XPY is a tangent to the circle and PQ is a diameter.

Angle $AQP = 57^\circ$.

Calculate

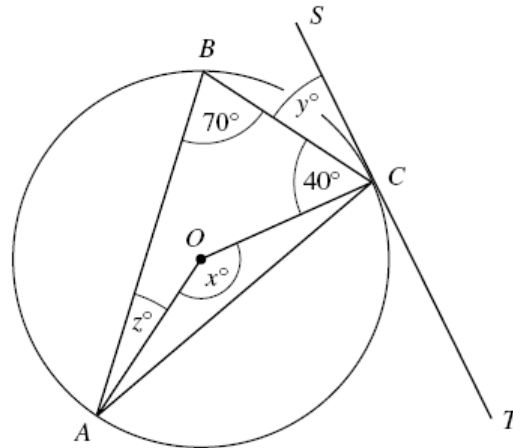
- (a) angle APQ ,
(b) angle APY .

NOT TO
SCALE



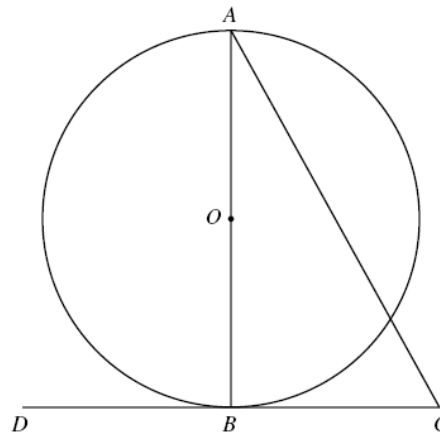
(2) Circle ABC has centre O . The line SCT is a tangent.
Angle $ABC = 70^\circ$ and angle $OCB = 40^\circ$.
Find x , y and z .

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- (3) In the diagram, AB is a diameter of the circle, centre O .
 DBC is a tangent at B .



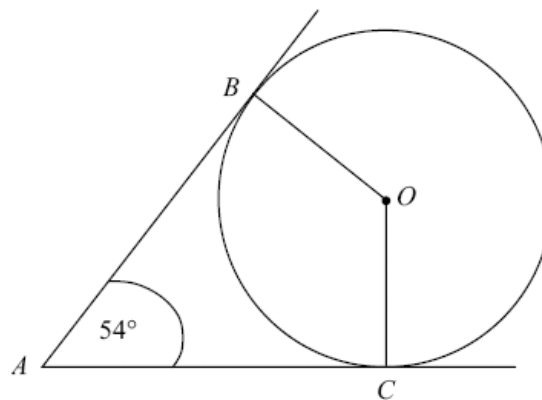
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- (a) Write down the size of angle ABC .
(b) The angles BAC and ACB are in the ratio 5:7.
Work out the size of angle BAC .

- (4) AB and AC are tangents to the circle, centre O .

Angle $BAC = 54^\circ$

- (a) Write down the size of angle ABO .
(b) Work out angle BOC .



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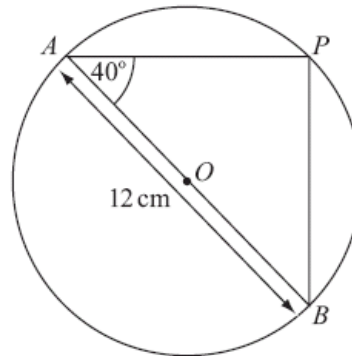
(5) In the diagram AB is the diameter of a circle, centre O. The length of AB is 12 cm.

(a) Write down the size of angle APB.

(b) Angle PAB = 40° .

Calculate the length of PB.

(c) Calculate the area of the circle.



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