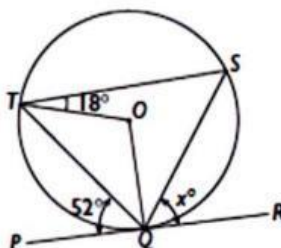


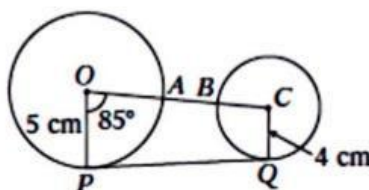
1. The diagram shows a circle QST with centre O. PQR is a tangent to the circle.
Rajah di bawah menunjukkan sebuah bulatan QST yang berpusat O. PQR ialah tangen kepada bulatan itu.



Find the value of x .
Cari nilai x .

- ☐ A 52
☐ B 54
☐ C 56
☐ D 57

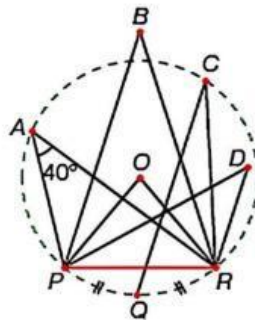
2. The diagram shows two circles with centres O and C respectively. PQ is a common tangent to the two circles. OABC is a straight line.
Rajah di bawah menunjukkan dua buah bulatan yang masing-masing berpusat O dan C. PQ ialah tangen sepunya kepada kedua-dua bulatan itu. OABC ialah garis lurus.



The length, in cm, of AB is
Panjang, dalam cm, bagi AB ialah

- ☐ A 2.47
☐ B 2.67
☐ C 3.17
☐ D 3.47

3.

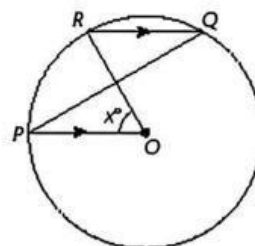


Find $\angle QCR$, in degrees.
Cari $\angle QCR$, dalam darjah.

- ☐ A 80°
☐ B 60°
☐ C 40°
☐ D 20°

4.

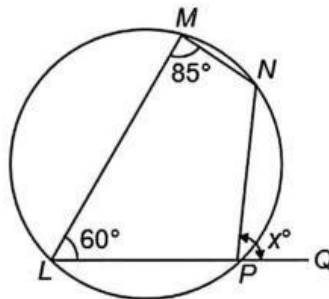
In the diagram, O is the centre of the circle and $\angle OPQ = 30^\circ$.
Dalam rajah di bawah, O ialah pusat bulatan dan $\angle OPQ = 30^\circ$.



Find the value of x.
Cari nilai x.

- ☐ A 15
☐ B 30
☐ C 45
☐ D 60

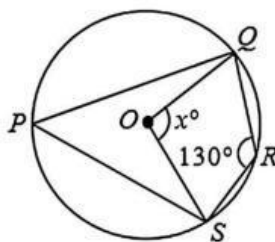
5. In the diagram, LPQ is a straight line.
Dalam rajah di bawah, LPQ ialah garis lurus.



Find the value of x .
Cari nilai x .

- ☐ A 80°
☐ B 85°
☐ C 95°
☐ D 100°

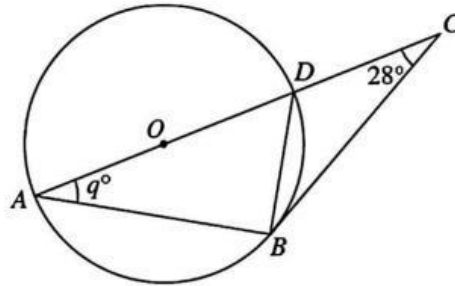
6. The diagram shows a circle with centre O .
Rajah di bawah menunjukkan sebuah bulatan berpusat O .



Find the value of x .
Cari nilai x .

- ☐ A 25°
☐ B 50°
☐ C 100°
☐ D 230°

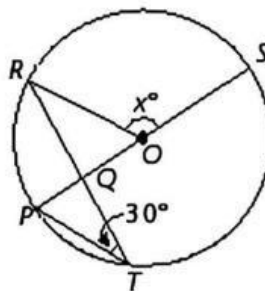
7. In the diagram below, BC is a tangent to the circle, centre O , at B . $AODC$ is a straight line.
 Dalam rajah di bawah, BC ialah tangen kepada bulatan yang berpusat O , di B . $AODC$ ialah garis lurus.



Find the value of q .
 Cari nilai q .

- ☐ A 25
☐ B 28
☐ C 30
☐ D 31

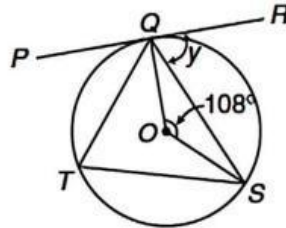
8. In the diagram, O is the centre of the circle. $PQOS$ and RQT are straight lines.
 Dalam rajah di bawah, O ialah pusat bulatan. $PQOS$ dan RQT ialah garis lurus.



Find the value of x .
 Cari nilai x .

- ☐ A 100
☐ B 120
☐ C 150
☐ D 165

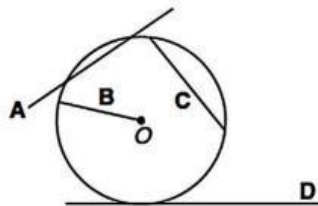
9. The diagram below shows a circle QST with centre O. A tangent PQR touches the circle at Q.
Rajah di bawah menunjukkan sebuah bulatan QST yang berpusat O. Tangen PQR menyentuh bulatan itu di Q.



Find the value of y .
Cari nilai y .

- ☐ A 36°
☐ B 54°
☐ C 72°
☐ D 90°

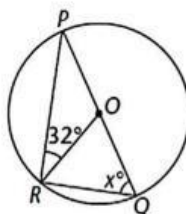
10. The diagram below shows a circle with centre O.
Rajah di bawah menunjukkan sebuah bulatan berpusat O.



Which of the straight lines, A, B, C or D, is a tangent to the circle?
Antara garis lurus A, B, C dan D, yang manakah tangen kepada bulatan itu?

- ☐ A
☐ B
☐ C
☐ D

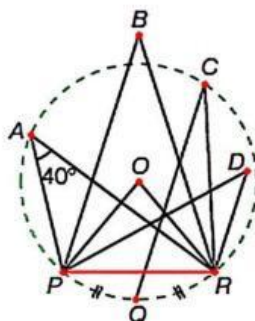
11. In the diagram, O is the centre of the circle and POQ is a straight line.
Dalam rajah di bawah, O ialah pusat bulatan. POQ ialah garis lurus.



Find the value of x .
Cari nilai x .

- ☐ A 29
☐ B 58
☐ C 64
☐ D 116

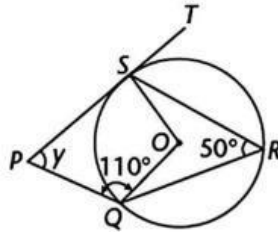
12.



Find $\angle POR$, in degrees.
Cari $\angle POR$, dalam darjah.

- ☐ A 80°
☐ B 60°
☐ C 40°
☐ D 20°

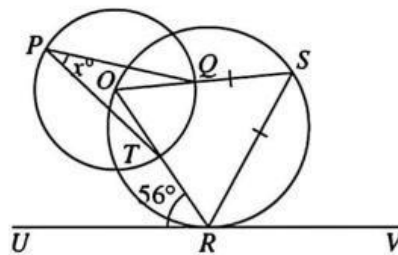
13. In the diagram below, PST is a tangent to the circle with centre O .
Dalam rajah di bawah, PST ialah tangen kepada bulatan berpusat O .



The value of y is
Nilai y ialah

- ☐ A 40°
☐ B 50°
☐ C 55°
☐ D 60°

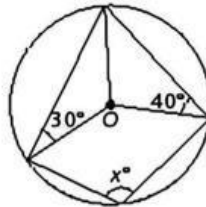
14. In the diagram below, URV is a tangent to the circle OSR , at point R . O is the centre of the circle PTQ . $OS = RS$.
Dalam rajah di bawah, URV ialah tangen kepada bulatan OSR , di titik R . O ialah pusat bagi bulatan PTQ . $OS = RS$.



Find the value of x .
Cari nilai x .

- ☐ A 62
☐ B 56
☐ C 31
☐ D 28

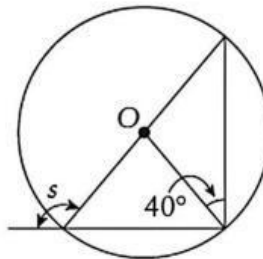
15. In the diagram, O is the centre of the circle.
Dalam rajah di bawah, O ialah pusat bulatan.



The value of x is
Nilai x ialah

- ☐ A 70
☐ B 110
☐ C 125
☐ D 140

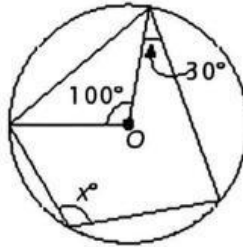
16. In the diagram, O is the centre of a circle.
Dalam rajah di bawah, O ialah pusat sebuah bulatan.



Find the value of s .
Cari nilai s .

- ☐ A 50°
☐ B 80°
☐ C 130°
☐ D 150°

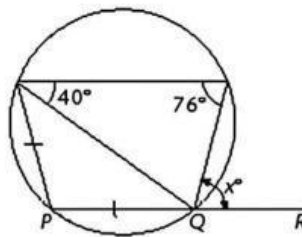
17. The diagram shows a circle with centre O .
Rajah di bawah menunjukkan sebuah bulatan berpusat O .



Find the value of x .
Cari nilai x .

- ☐ A 130
☐ B 110
☐ C 90
☐ D 85

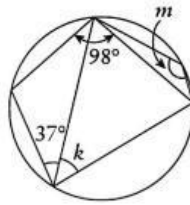
18. In the diagram, PQR is a straight line.
Dalam rajah di bawah, PQR ialah garis lurus.



Find the value of x .
Cari nilai x .

- ☐ A 74
☐ B 76
☐ C 78
☐ D 80

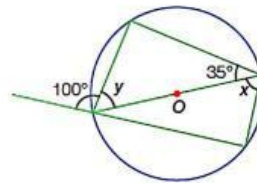
19.



In the diagram, find the value of m° .
 Dalam rajah di atas, cari nilai m° .

- ☐ A 45
- ☐ B 61
- ☐ C 119
- ☐ D 135

20. Find the value of $x + y$.
 Cari nilai $x + y$.



- ☐ A 140°
- ☐ B 120°
- ☐ C 65°
- ☐ D 55°