

NAMA GURU:

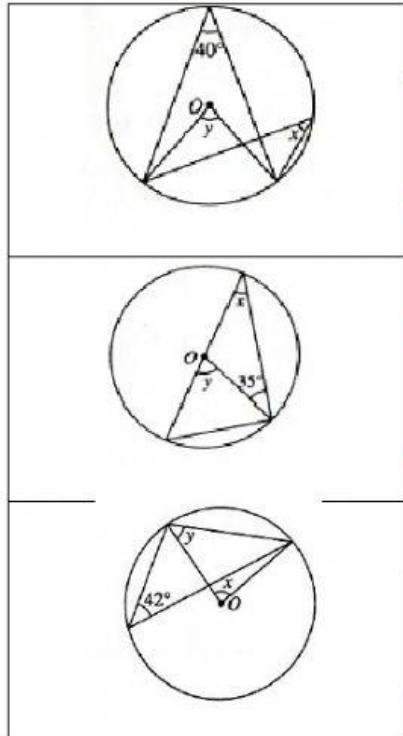
NAME:

CLASS:

6.1 ANGLE AT THE CIRCUMFERENCE AND CENTRAL ANGLE SUBTENDED BY AN ARC.

1. Drag the choices of answers and put in the spaces provided.

O is the centre of the circle. Find the values of x and y.



Value of x =

35°

Value of y =

84°

Value of x =

40°

Value of y =

48°

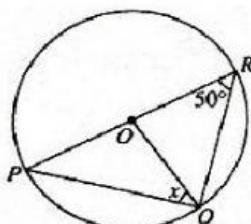
Value of x =

80°

Value of y =

70°

2. O is the centre of the circle. Find the value of x. (Choose 1 answer)



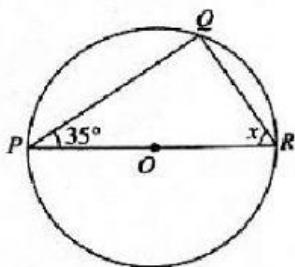
50°

48°

62°

40°

3. O is the centre of the circle. Find the value of x . (Choose 1 answer)



55°

65°

60°

50°

4. Drag the choices of answers and put in the spaces provided.

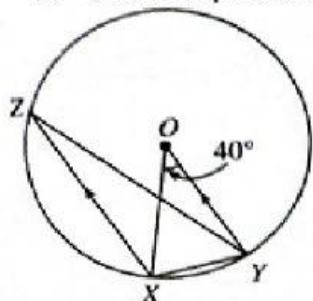
110°

50°

55°

20°

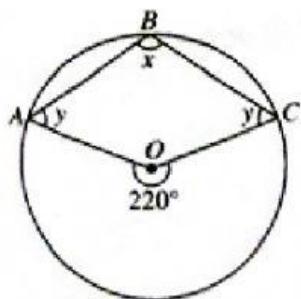
In the diagram, O is the centre of the circle which passes through X, Y and Z. Given $\angle XOY = 40^\circ$ and XZ is parallel to YO.



Value of $\angle XZY =$

Value of $\angle ZYX =$

In the diagram, O is the centre of the circle which passes through points A, B and C. Given the reflex angle AOC is 220° . Find the values of x and y .



Value of $\angle x =$

Value of $\angle y =$

6.2 CYCLIC QUADRILATERALS.

5. Drag the choices of answers and put in the spaces provided.

Find the values of x and y in the diagram below.

The image contains three separate diagrams of cyclic quadrilaterals. Each diagram has two empty text boxes for inputting values of x and y , and a vertical line with three green arrows pointing downwards, each pointing to one of the text boxes. To the right of the boxes are colored boxes containing possible answers.

Diagram 1: A circle with a horizontal chord. The top-left angle is 105° and the top-right angle is 115° . The bottom-left angle is y and the bottom-right angle is x .

Diagram 2: A circle with a vertical chord. The top-left angle is 70° and the bottom-left angle is 95° . The top-right angle is x and the bottom-right angle is y .

Diagram 3: A circle with a diagonal chord. The top-left angle is x and the top-right angle is y . The bottom-left angle is $2y$ and the bottom-right angle is 80° .

Value of x =

Value of y =

Value of x =

Value of y =

Value of x =

Value of y =

85°

100°

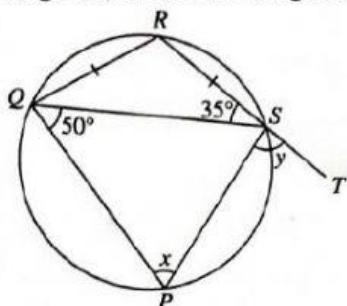
75°

60°

65°

25°

6. In the diagram, RST is a straight line.



$x = 25^\circ$

$y = 55^\circ$

$x = 70^\circ$

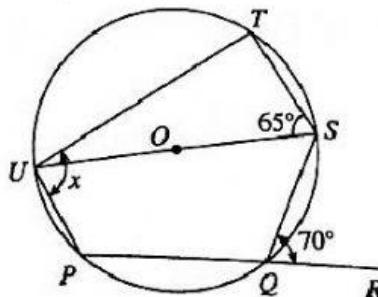
$y = 100^\circ$

$x = 75^\circ$

$y = 85^\circ$

Given $RQ = RS$, find the values of x and y .

7. In the diagram, UOS is the diameter of a circle with centre O . PQR is a straight line.



Find the value of x .

68°

71°

78°

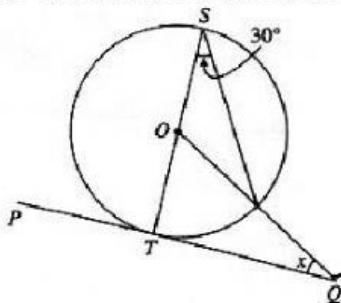
95°

110°

87°

6.3 TANGENTS TO CIRCLES.

8. OT is the radius of the circle and PQ is the tangent.



Find the value of x .

30°

32°

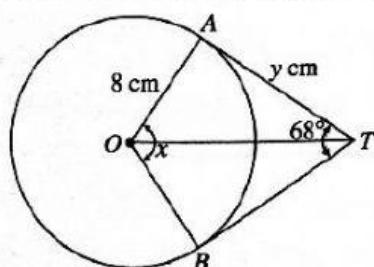
38°

45°

50°

57°

9. TA and TB are two tangents to the circle with centre O



Find the value of x and y .

$x = 97^\circ$

$x = 105^\circ$

$x = 112^\circ$

$y = 12.54$

$y = 11.86$

$y = 14.10$