

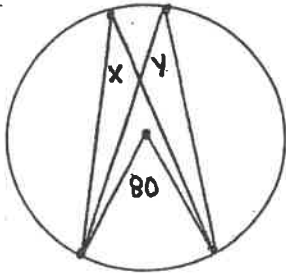
Unit 8 Review

Name: _____

Section A: Mastery Questions

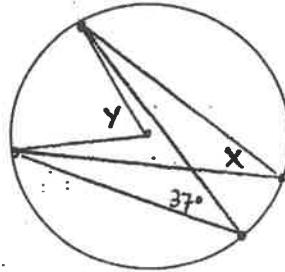
Find the missing angle or sides using circle properties. (1 each)

1.



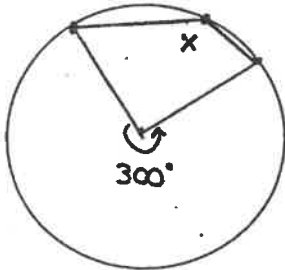
X = _____
Y = _____

2.



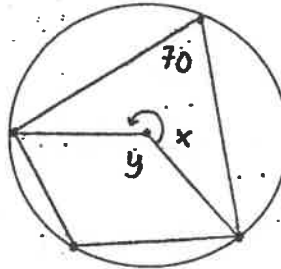
X = _____
Y = _____

3.



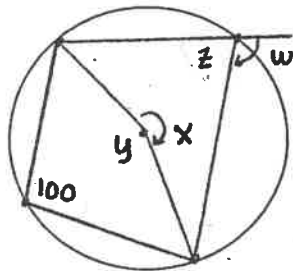
X = _____

4.



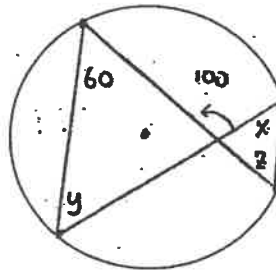
X = _____
Y = _____

5.



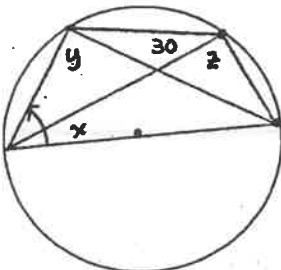
W = _____
X = _____
Y = _____
Z = _____

6.



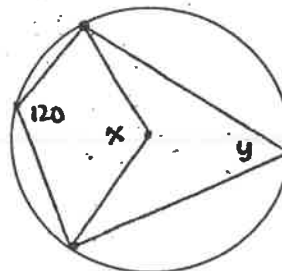
X = _____
Y = _____
Z = _____

7.



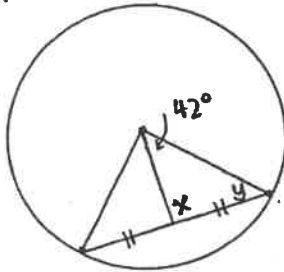
X = _____
Y = _____
Z = _____

8.



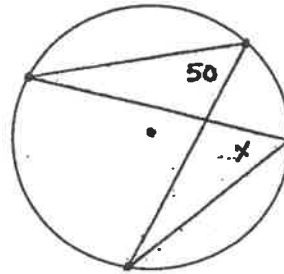
X = _____
Y = _____

1.



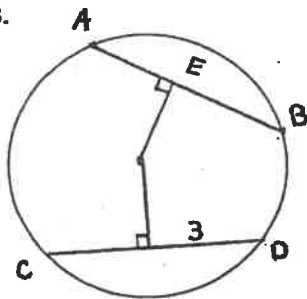
X = _____
Y = _____

2.



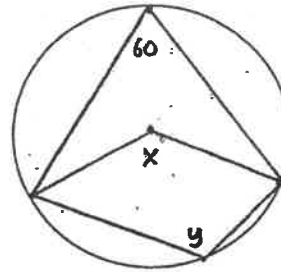
X = _____

3.



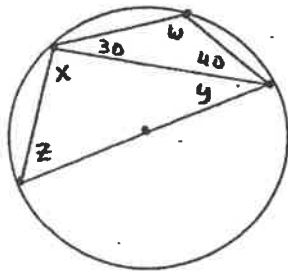
AB = 5
AE = _____
CD = _____

4.



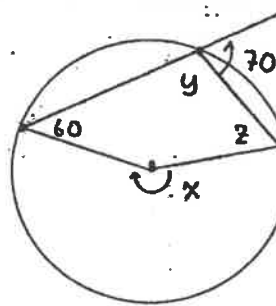
X = _____
Y = _____

5.



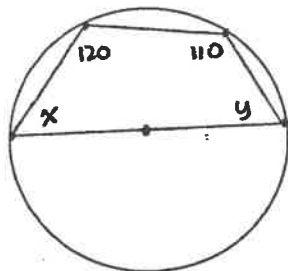
W = _____
X = _____
Y = _____
Z = _____

6.



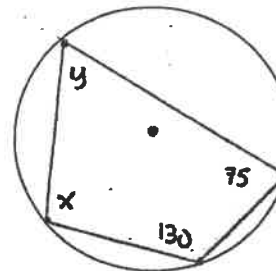
X = _____
Y = _____
Z = _____

7.



X = _____
Y = _____

8.

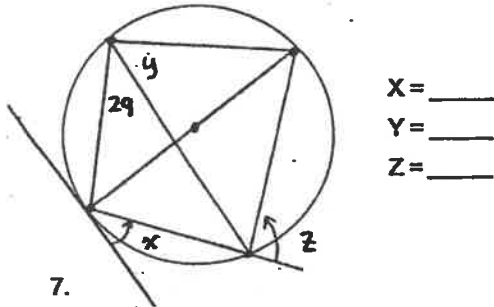


X = _____
Y = _____

Section B: Regular Questions

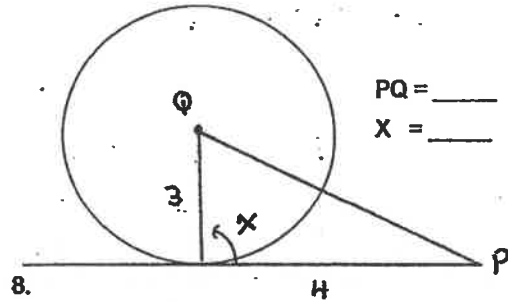
Find the missing angle or sides using circle properties. (1 each)

5.



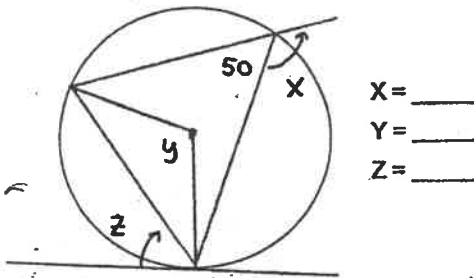
X = _____
Y = _____
Z = _____

6.

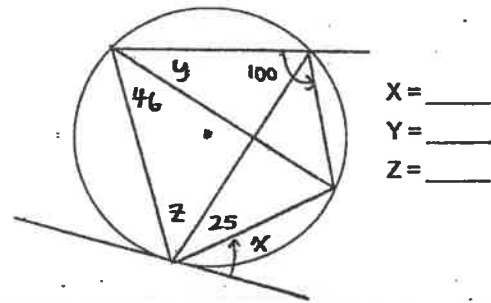


PQ = _____
X = _____

7.



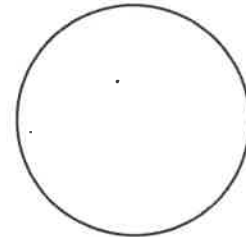
X = _____
Y = _____
Z = _____



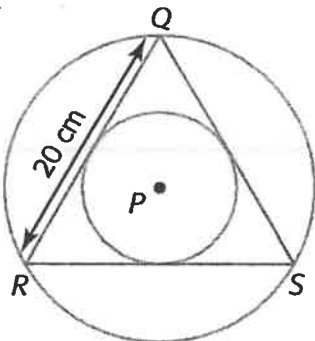
X = _____
Y = _____
Z = _____

5. Draw and label each of the following parts on the circle provided.

- i. minor arc AB
- ii. inscribed angle ACB
- iii. tangent line GH with a point of tangency at C



6. Two circles have a common centre P. Three chords in the larger circle are tangent to the smaller circle and form ΔQRS . Determine the perimeter of the triangle. (2 marks)



7. The depth of water in a circular pipe of radius 54 cm is 24 cm. What is the width of the water's surface across the pipe to the nearest centimetre? Include a diagram. (3 marks)

8. A circle has a chord AB 23cm in length and 9cm from the center. What is the diameter of the circle? Include a diagram. (3 marks)

9. A tangent segment is 12cm long and the exterior point is 18cm from the center. Calculate the radius. Include a diagram. (3 marks)

Bonus:

Four fluorescent light bulb tubes of diameter 3 cm are tied together into a bundle with a piece of string, as shown in the diagram. What is the shortest piece of string needed if an extra 10 cm of string is needed for tying the knot?

