ST. LAWRENCE HIGH SCHOOL

A Christian Jesuit minority Institution

Subject: Mathematics   **Class: X**   **Date:11/04/2020**
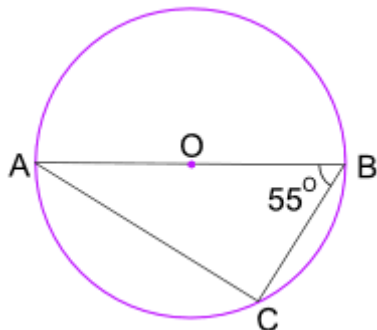
Worksheet-5

Chapter- Theorem related to angles in a circle
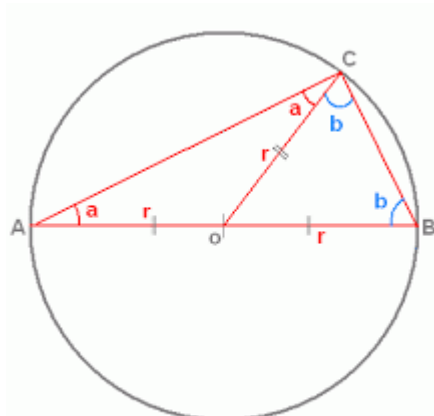
Topic- theorem on any angle in the semicircle is a right angle.


Worksheet-5

1. <u>**Choose the correct alternative.**</u>   **1x15=15**

    a) Measure of any angle in the semicircle is i) 45° ii)90° iii) 60°   iv) none of these

     b)In the following figure measure of angle BAC is   i) 35° ii) 55° iii)45° iv) none of these

c)If in the following figure angle BOC is 70°. Measure of a is i) 30° ii) 35° iii)55° iv) none of these

d) If in the following figure AB is the diameter, measure of AB is i) 6 cm.ii) 10 cm iii) 5 cm iv) none of these
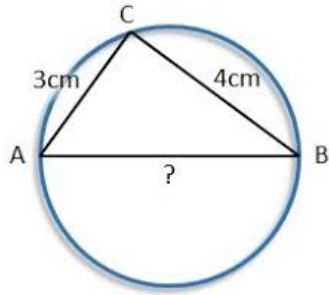

e) **In ABC isosceles triangle AB=AC.now a circle is drawn keeping AB as the diameter,and the circle is intersecting BC at the point D. BD=4 cm .Measure of CD is i) 4 cm ii) 3 cm iii) 5 cm iv) none of these**
f) In a circle with centre O ,AOB is a diameter.A point C is taken on the circle . Angle OBC=60°. Measure of angle OCA is i) 60° ii) 30° iii)90° iv) none of these
g) In the following figure,length of BC is i) 12 cm ii) 10 cm iii) 6 cm iv) none of these
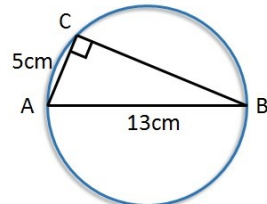
Nowwith reference to the follow figures choose the correct answer.

1.

2.

3.

4.

5.

6.

7.

8.
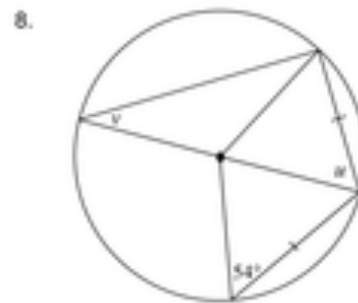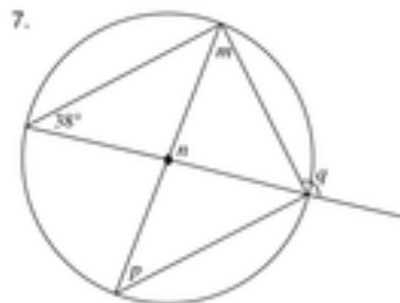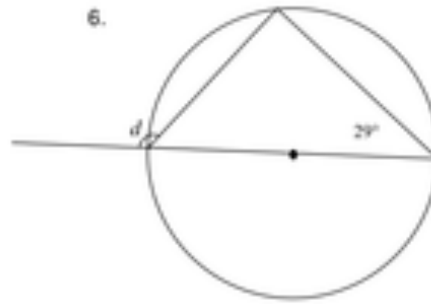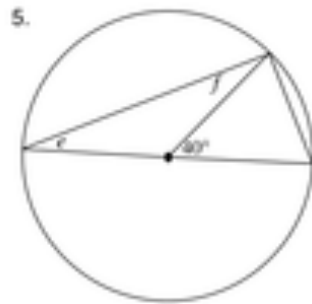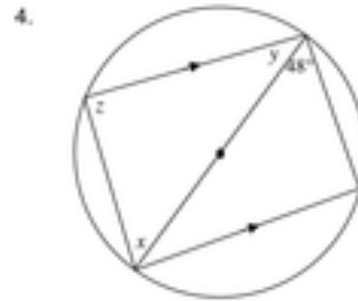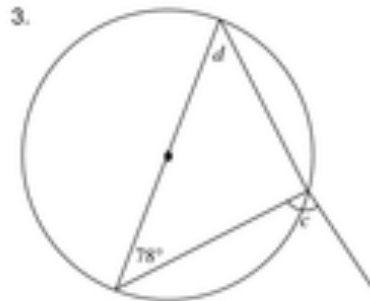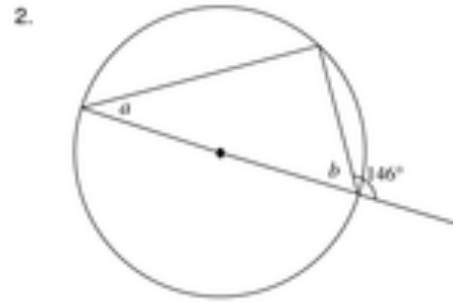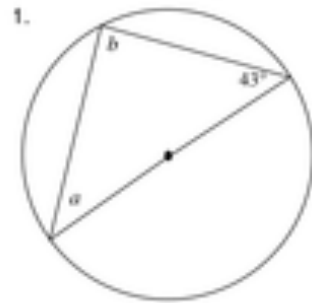
h)With referece to image 1, measure of a is i) 43° ii) 47° iii) 57° iv) none of these

i)   With reference to image 2,measure of a is   i) 56° ii) 46° iii) 76° iv) none of these

j) with referece to image 3 ,measure of d is   i) 15° ii)22° iii) 12° iv) none of these
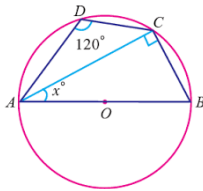
k)In the image 4 there is a parallelogram inside the circle,measure of y is i)48° ii) 42° iii)52° iV) none of these

l)with reference to image 5 the given angle is 64°, measure of e is i) 32° ii) 42° iii) 52° iv) none of these

m)In image 6 measure of d is i) 109° ii) 119° iii) 129° iv) none of these

n)In the image 7, measure of external angle q is i) 128° ii) 138° iii)118° iv) none of these

o)In the following figure angles ABC and ADC are supplementary .Measure of x is i) 60°ii) 30° iii) 50° iv) 90°

Aparajita Mondal