ST. LAWRENCE HIGH SCHOOL

A Christian Jesuit minority Institution

Subject: Mathematics   Class: X   Date:11/04/2020

Answer key of Worksheet-5
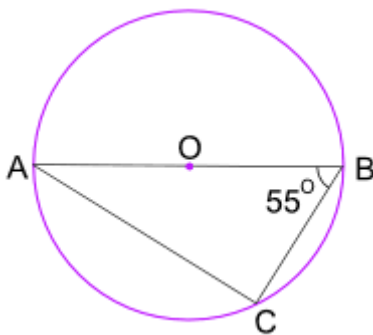
Chapter- Theorem related to angles in a circle

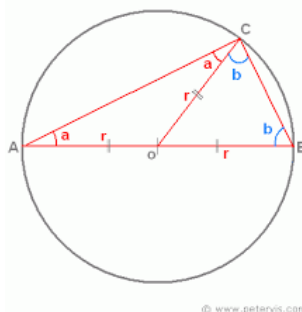Topic- theorem on any angle in the semicircle is a right angle.

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Worksheet-5

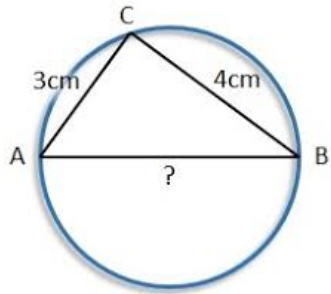1. <u>Choose the correct alternative.</u>   1x15=15
   a) Measure of any angle in the semicircle is   ans ii)90°
   b)In the following figure measure of angle BAC is   ans i) 35°

c)If in the following figure angle BOC is 70°. Measure of a is ans ii) 35°


d) If in the following figure AB is the diameter, measure of AB is   ans iii) 5 cm

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**
   ans i) 4 cm

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   ans ii) 30°

g) In the following figure,length of BC is ans i) 12 cm
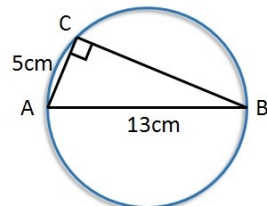
Nowwith reference to the follow figures choose the correct answer.

1.

2.

3.

4.

5.

6.

7.

8.
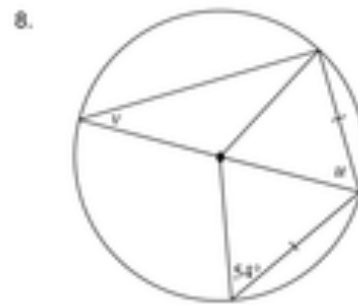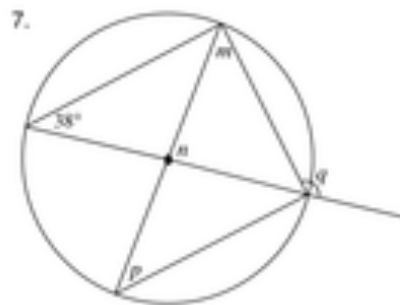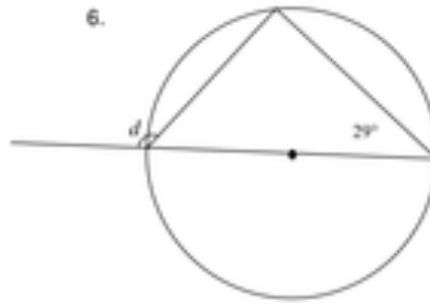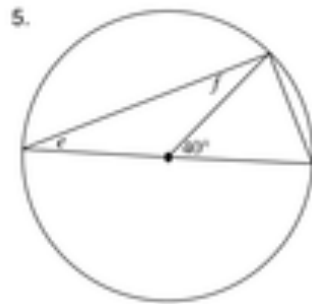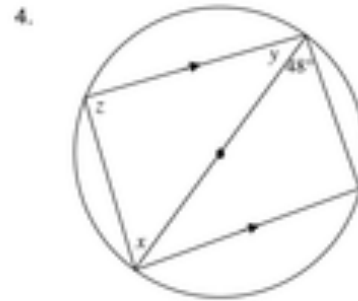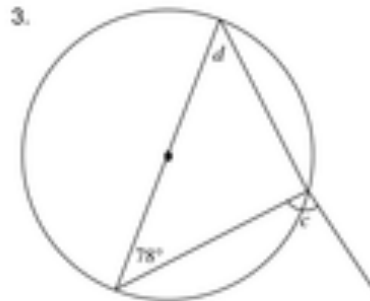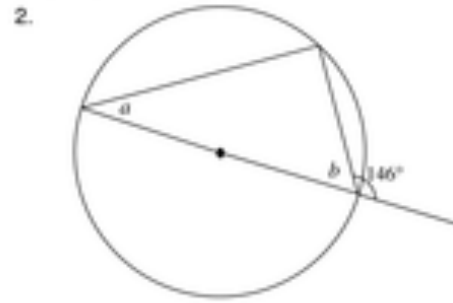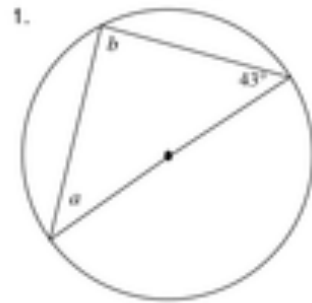
h)With referece to image 1, measure of a is   ans ii) 47°

i)   With reference to image 2,measure of a is   ans i) 56°
j) with referece to image 3 ,measure of d is   ans iii) 12°
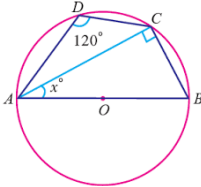k)In the image 4 there is a parallelogram inside the circle,measure of y is

ans ii) 42°

l)with reference to image 5 the given angle is 64°, measure of e is   ans i) 32°

m)In image 6 measure of d is   ans   ii) 119°

n)In the image 7, measure of external angle q is   ans   i) 128°

o)In the following figure angles ABC and ADC are supplementary .Measure of x is

 ans ii) 30°

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