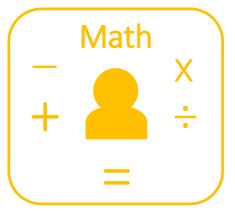




TUTORS

Preparation for

High School Mathematics Circle Theorems



Instructions and Tips:

- ✓ You have 60 minutes to complete this worksheet
- √ This worksheet consists of 15 guestions
- ✓ Write answers in the spaces provided
- ✓ All working must be clearly shown
- Diagrams are not drawn to scale



Student Name: _	-
Student ID:	
Date: / /	

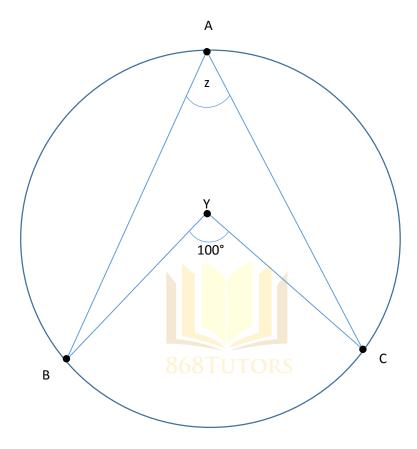
Total Score:

Highest Score:

Tutor's Comments:

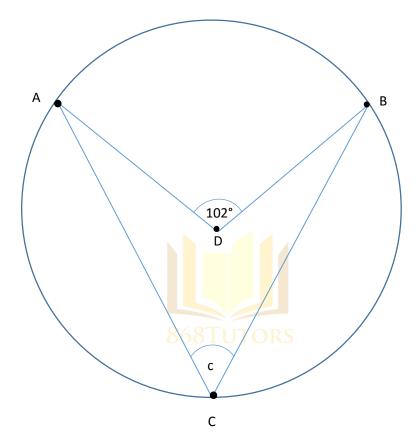
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Consider the circle below with centre Y:



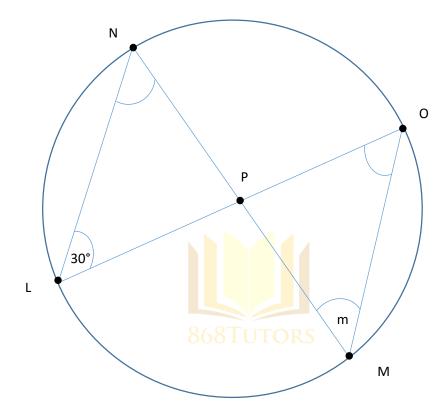
State the value of z and give a reason for your answer.

Consider the circle below with centre D:



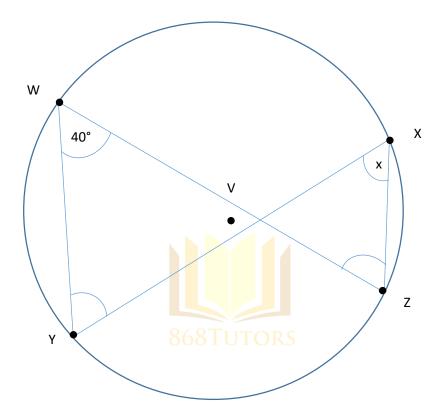
State the value of c and give a reason for your answer.

Consider the circle below with centre P:



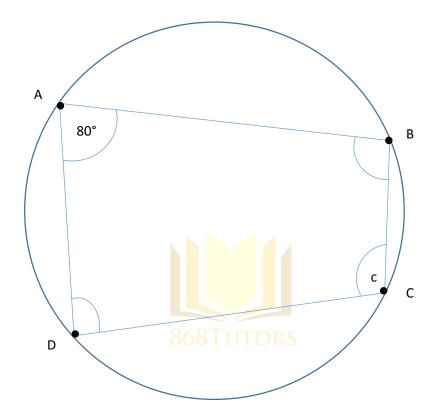
State the value of m and give a reason for your answer.

Consider the circle below with centre V:



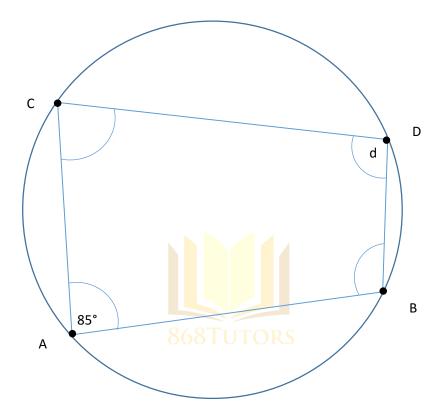
State the value of ${\bf x}$ and give a reason for your answer.

Consider the circle below:



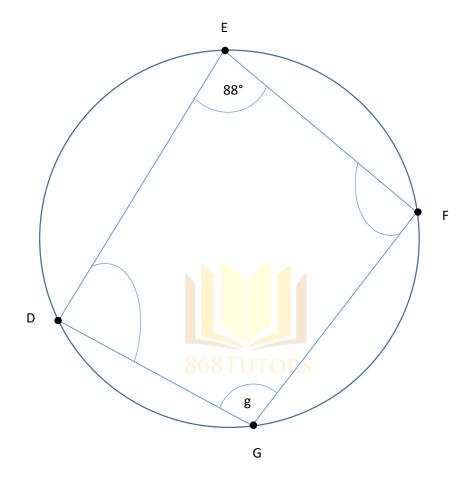
State the value of c and give a reason for your answer.

Consider the circle below:



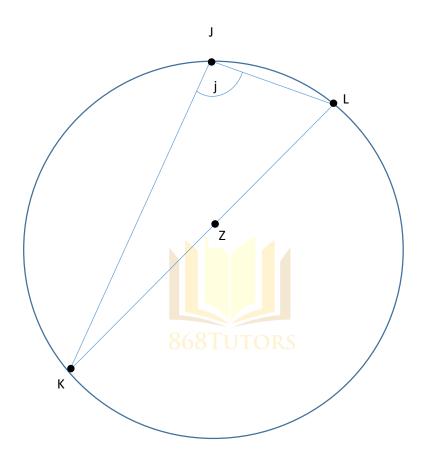
State the value of d and give a reason for your answer.

Consider the circle below:



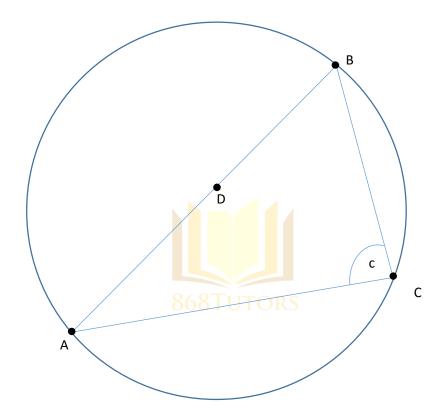
State the value of g and give a reason for your answer.

Consider the circle below with centre Z Also, KL is a diameter of the circle below



State the value of j and give a reason for your answer.

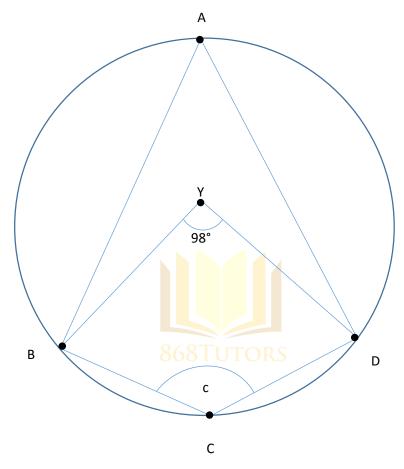
Consider the circle below with centre D Also, AB is a diameter of the circle below



State the value of c and give a reason for your answer.

(4 marks)

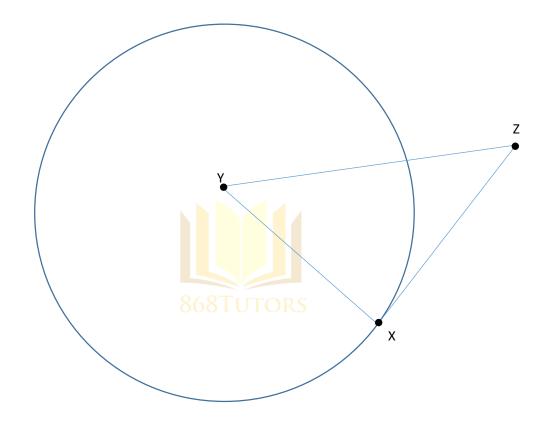
Consider the circle below with centre Y:



Determine the value of c and give reasons for your answer.

(5 marks)

Consider the circle below with centre Y XZ is a circle tangent and XY is a circle radius

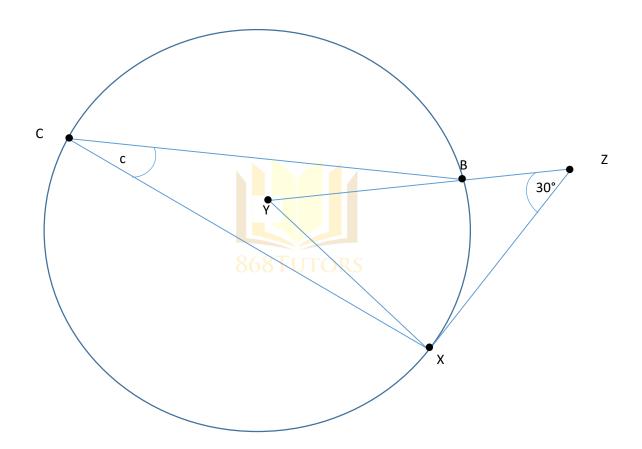


State the value of <YXZ and give a reason for your answer.

Consider the circle below with centre Y

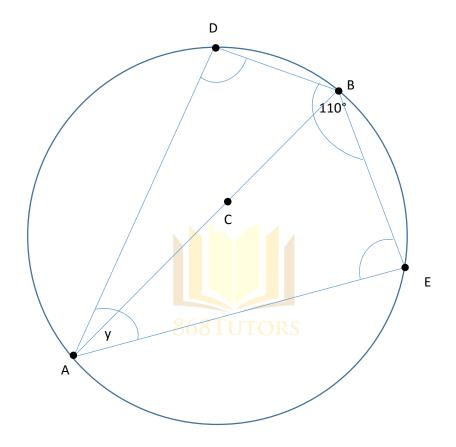
XZ is a circle tangent and XY is a circle radius

<XZY =30°



Determine the value of c and give reasons for your answer.

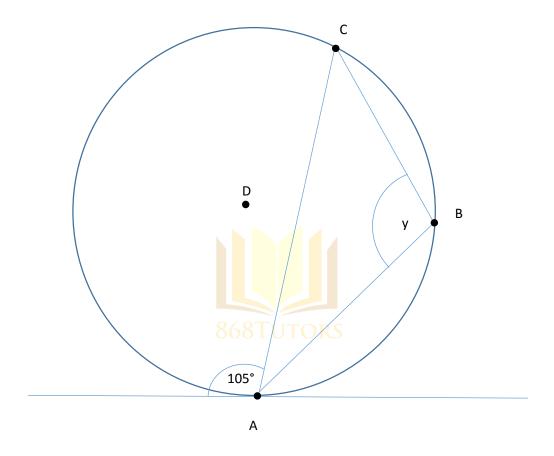
Consider the circle below with centre C Also, AB is a diameter of the circle below



State the value of y and give a reason for your answer.

(6 marks)

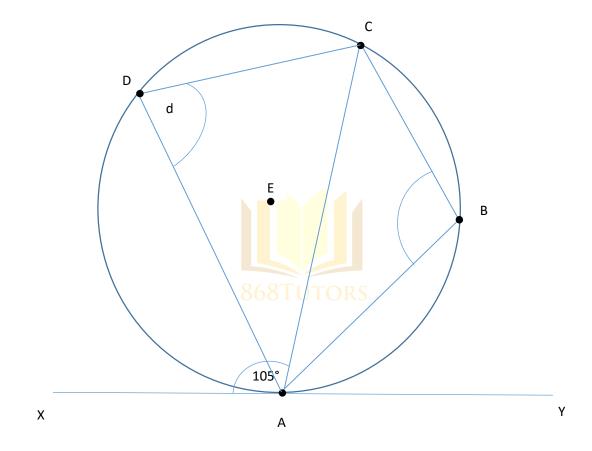
Consider the circle below with centre D



State the value of y and give a reason for your answer.

Consider the circle below with centre E

Line XY is a straight line that is tangent to the circle at point A



Determine the value of d and give reasons for your answer.

(4 marks)



END OF WORKSHEET



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