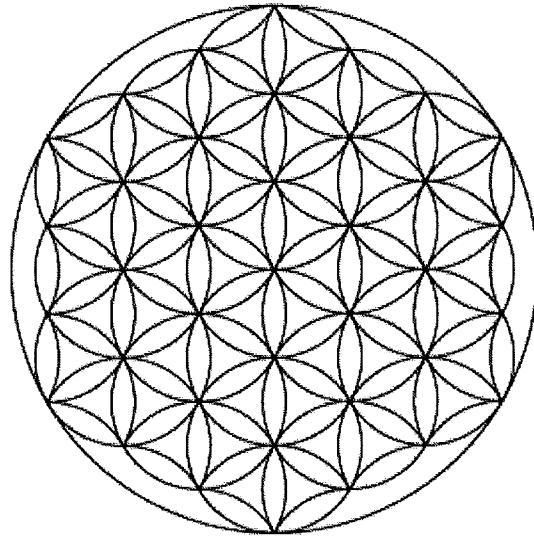


Math 9
Chapter 9 Circle Geometry
Homework

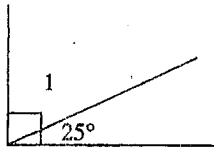
Date	Topic
	Geometry Introduction
	Chord Property
	Inscribed Angles Central Angles
	Central/Inscribed Angles Semi-Circle Property
	Tangent-Radius Property Tangents from an External Point
	Cyclic Quadrilaterals Project Introduction
	Project
	Chapter 9 Review
	Chapter 9 Test



INTERSECTING LINES

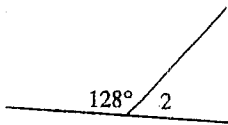
Find the measure of each required angle and give the reason for your answer.

1.



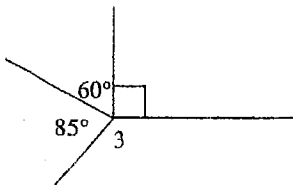
$\angle 1 =$ _____

2.



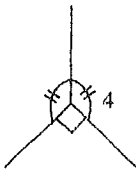
$\angle 2 =$ _____

3.



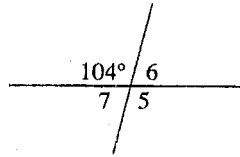
$\angle 3 =$ _____

4.



$\angle 4 =$ _____

5.

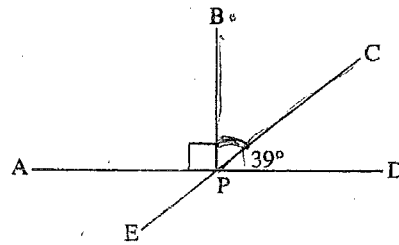


$\angle 5 =$ _____

$\angle 6 =$ _____

$\angle 7 =$ _____

6.

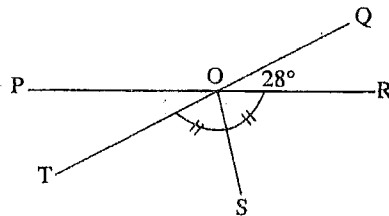


$\angle BPD =$ _____

$\angle BPC =$ _____

$\angle APE =$ _____

7.



$\angle POT =$ _____

$\angle POQ =$ _____

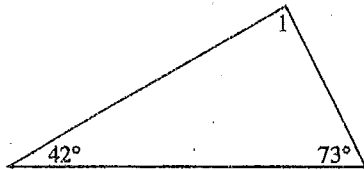
$\angle ROT =$ _____

$\angle ROS =$ _____

TRIANGLES

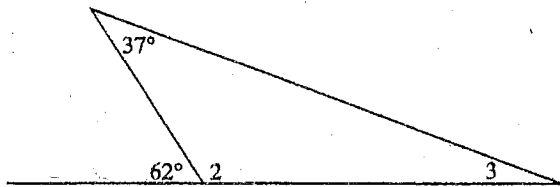
Find the measure of each required angle and give the reason for your answer.

1.



$\angle 1 =$ _____

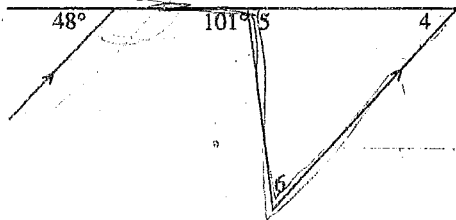
2.



$\angle 2 =$ _____

$\angle 3 =$ _____

3.

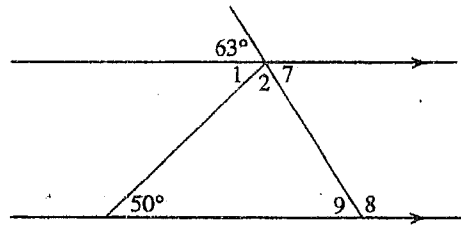


$\angle 4 =$ _____

$\angle 5 =$ _____

$\angle 6 =$ _____

4.



$\angle 7 =$ _____

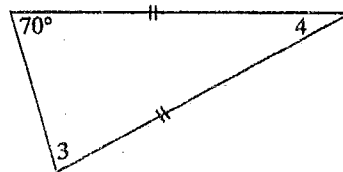
$\angle 8 =$ _____

$\angle 9 =$ _____

$\angle 1 =$ _____

$\angle 2 =$ _____

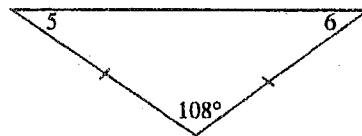
5.



$\angle 3 =$ _____

$\angle 4 =$ _____

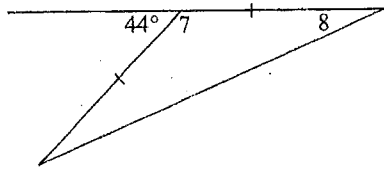
6.



$\angle 5 =$ _____

$\angle 6 =$ _____

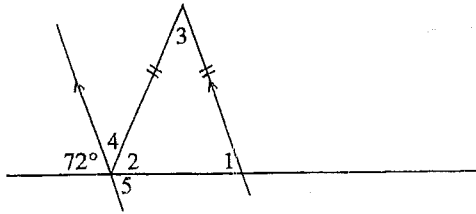
7.



$\angle 7 =$ _____

$\angle 8 =$ _____

8.



$\angle 1 =$ _____

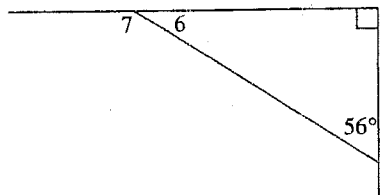
$\angle 2 =$ _____

$\angle 3 =$ _____

$\angle 4 =$ _____

$\angle 5 =$ _____

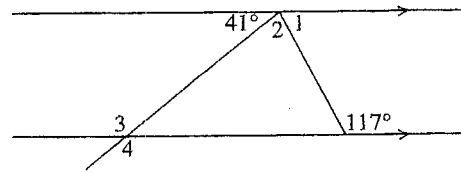
9.



$\angle 6 =$ _____

$\angle 7 =$ _____

10.



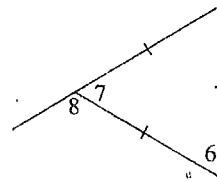
$\angle 1 =$ _____

$\angle 2 =$ _____

$\angle 3 =$ _____

$\angle 4 =$ _____

11.

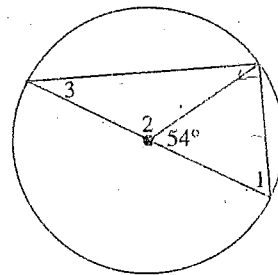


$\angle 6 =$ _____

$\angle 7 =$ _____

$\angle 8 =$ _____

12.



$\angle 1 =$ _____

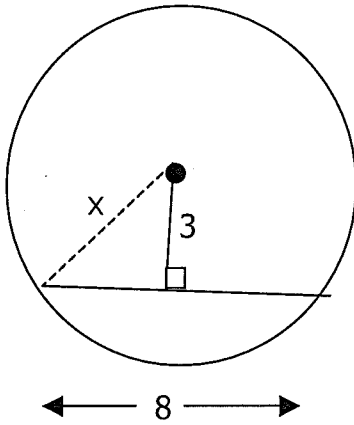
$\angle 2 =$ _____

$\angle 3 =$ _____

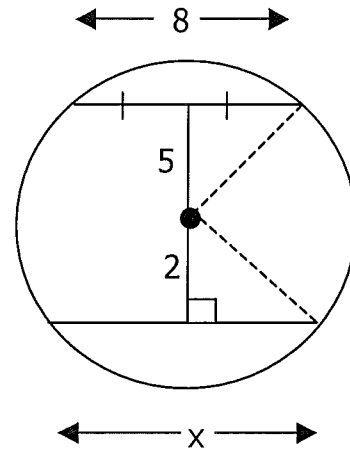
Ma 9
Solve for the unknown

Chord Property

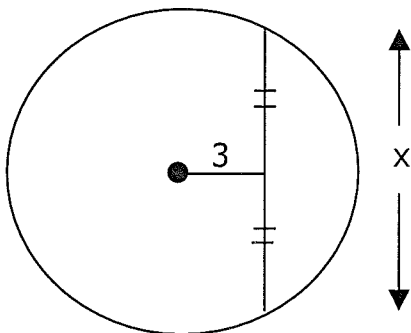
1.



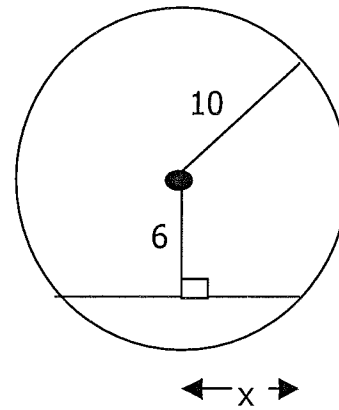
4.



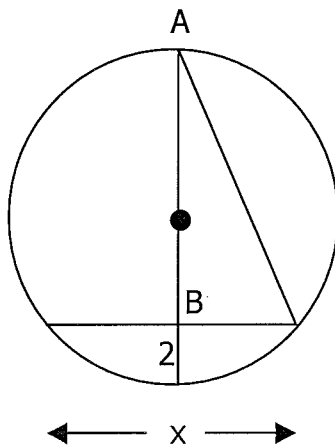
2. $d = 12$



5.

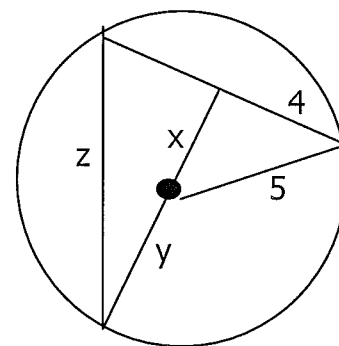


3.

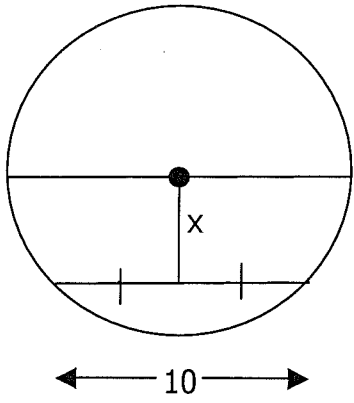


$AB = 8$

6.

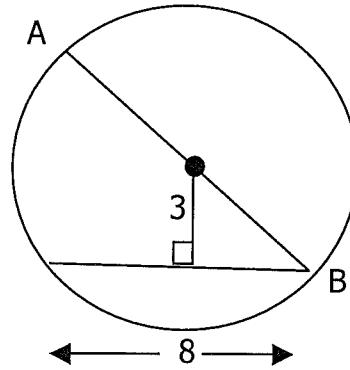


7

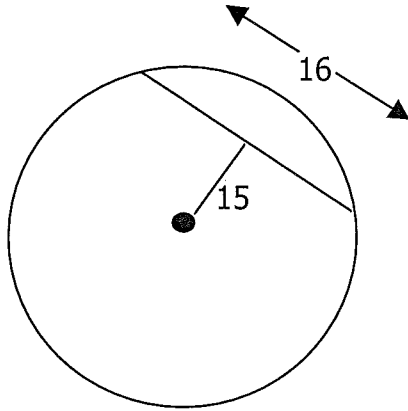


$d = 20$

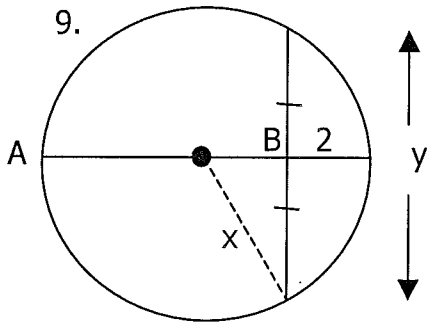
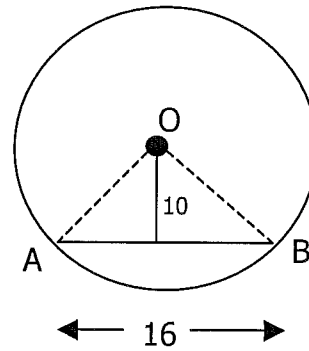
10. Find length of AB



8. Find the diameter



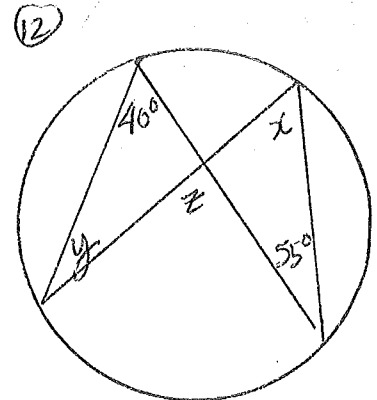
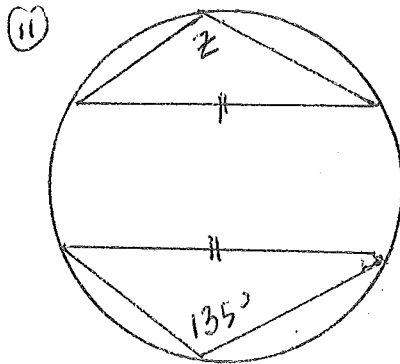
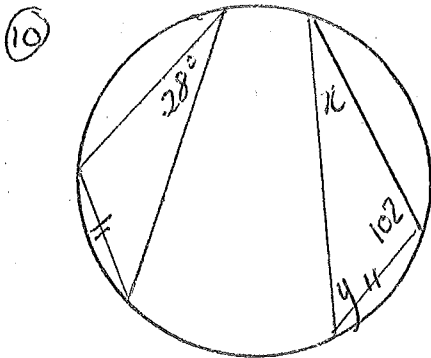
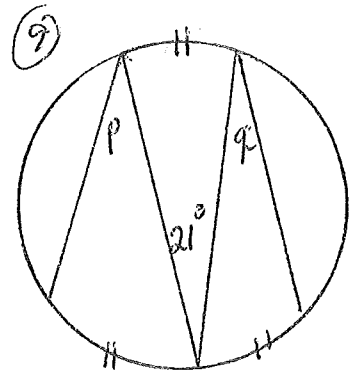
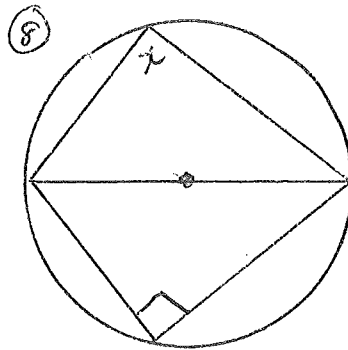
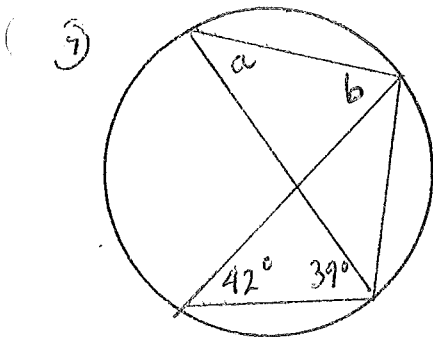
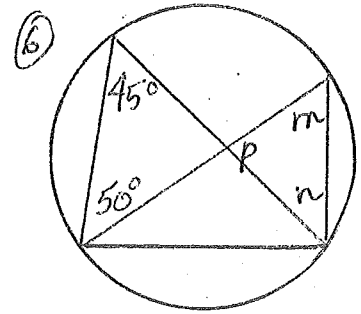
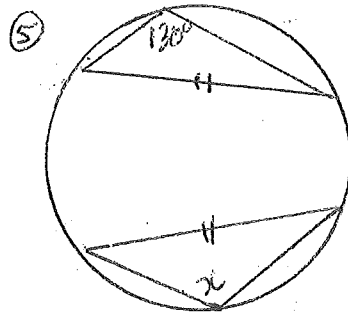
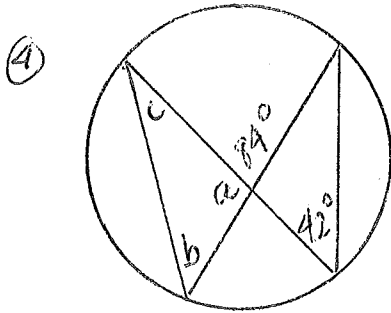
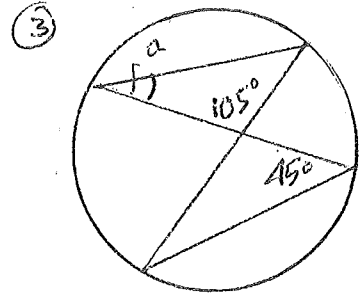
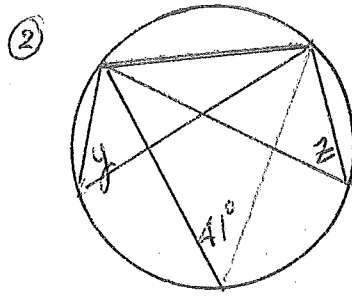
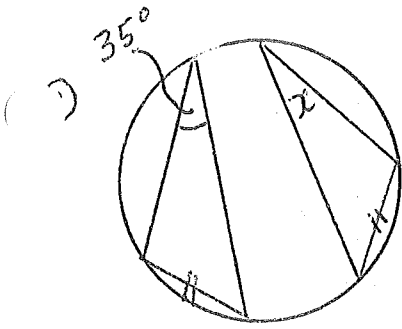
11. Find the perimeter of $\triangle AOB$



$AB = 8$

$X =$

$Y =$

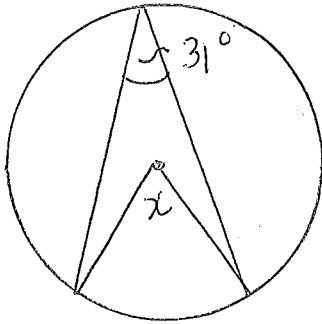


Pm 9

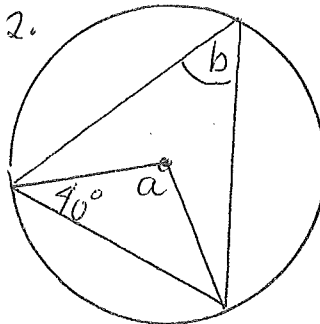
Central/Inscribed Angles

Name

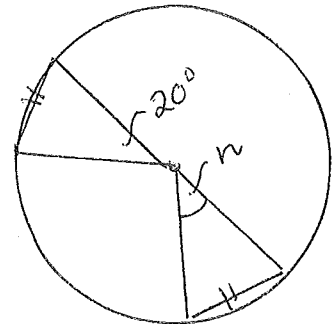
1.



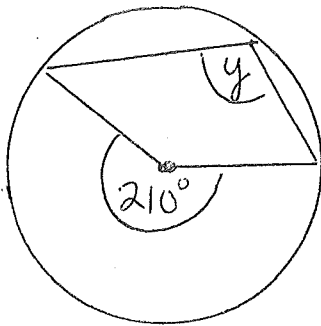
2.



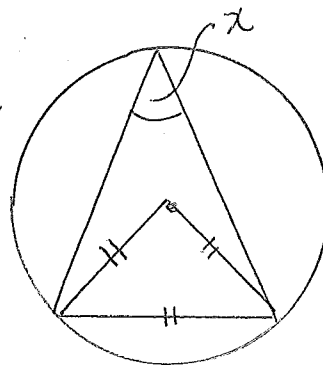
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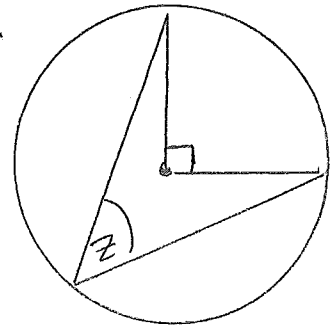
4.



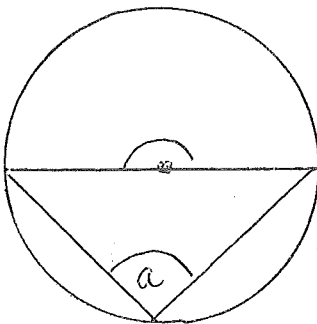
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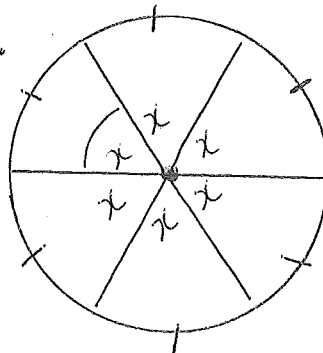
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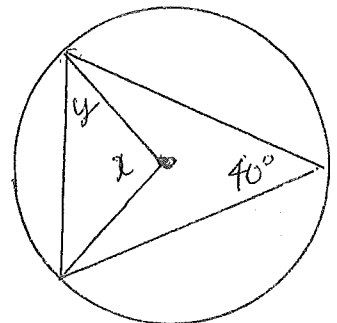
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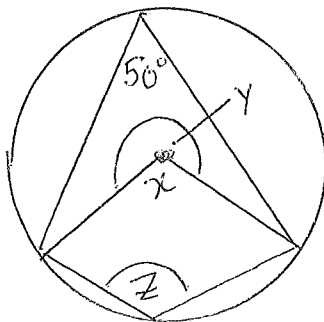
8.



9.



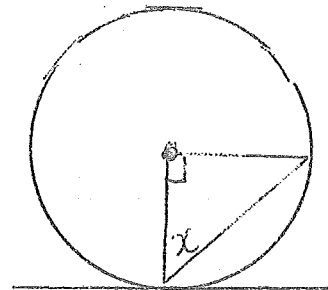
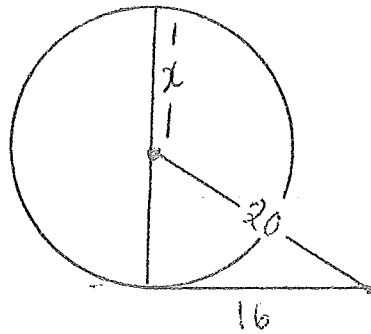
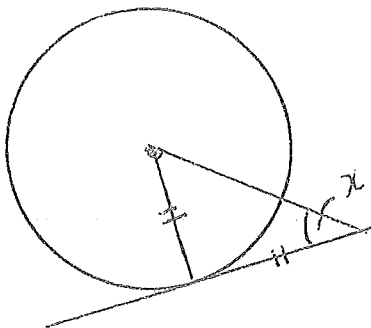
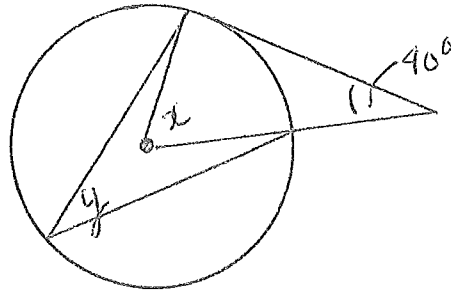
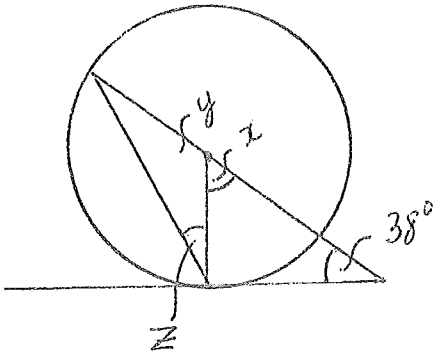
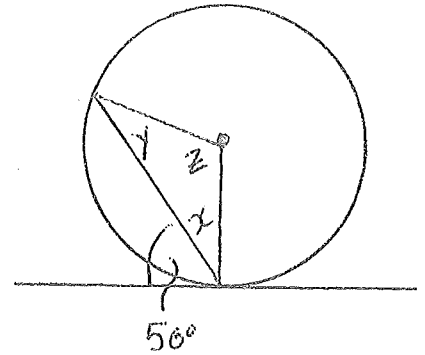
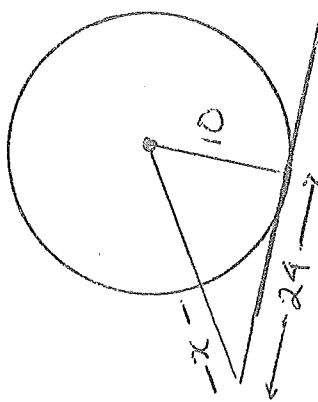
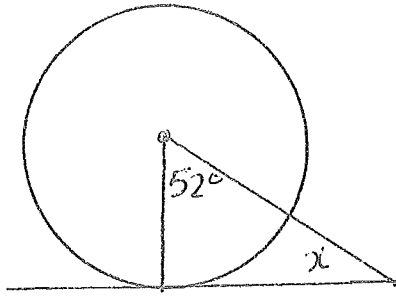
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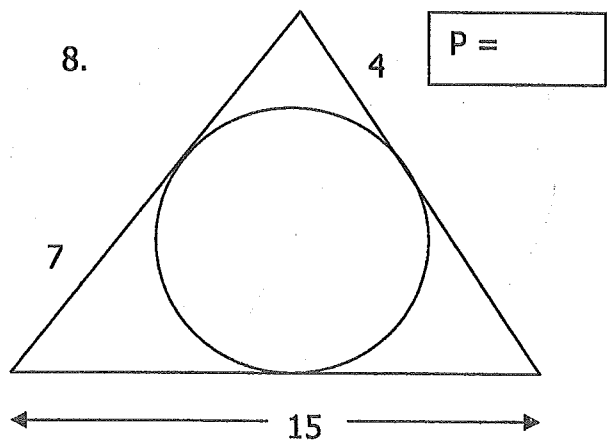
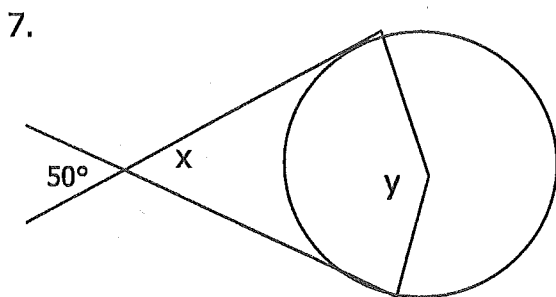
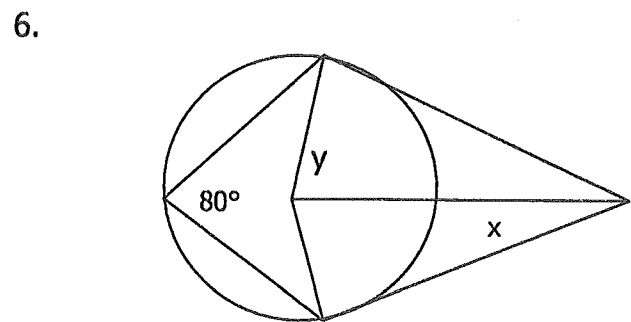
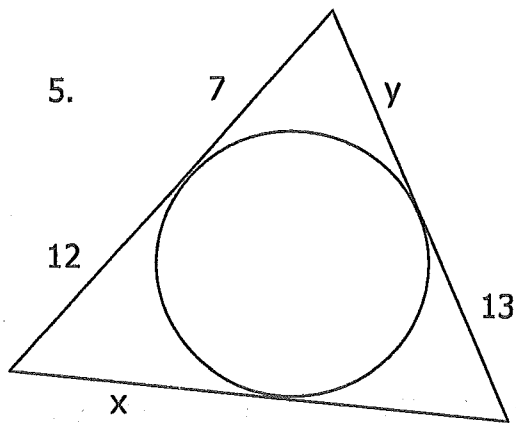
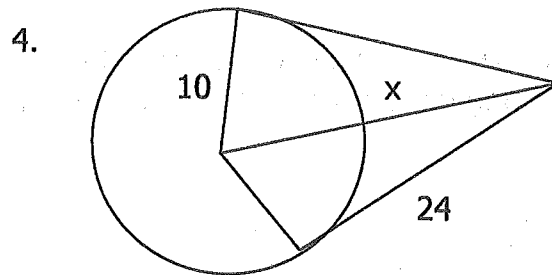
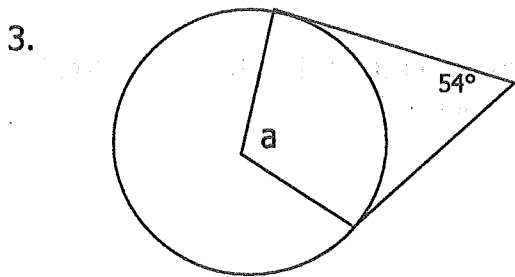
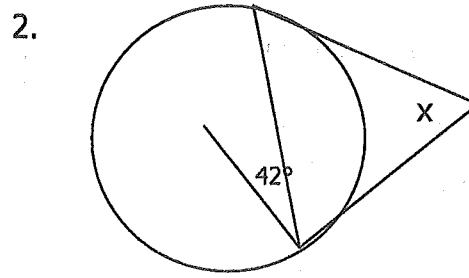
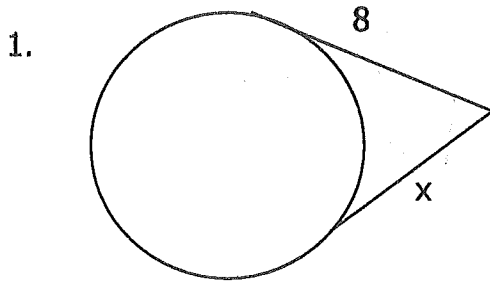


Pm 9

Tangent-Radius Property

Name: _____





TANGENTS FROM AN EXTERNAL POINT

PM 9

Name: _____ Bl: _____

Solve for the indicated variables.

