

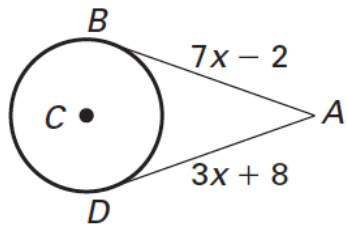
MAKE THE GRADE! – Circle Review

Set "F" _____ Set "D" _____ Set "C" _____ Set "B" _____ Set "A" _____

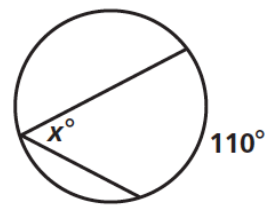
Directions: -Answer one set of questions at a time, starting with Set F. You must have each set checked off before moving to the next set.
 -The question sets are in the envelopes. Put the question set back in the envelope marked with the corresponding Set letter before taking the next question set.
 -ALL members must have work done on their own papers before I come to check you off.
 -When I come to check your answers, you and your team members must be ready to answer one question correctly before you can move on to the next set.

Set F

1. \overleftrightarrow{AB} and \overleftrightarrow{AD} are tangent to $\odot C$.
 Find the value of x .



2. Find the value of x .



1. _____

2. _____

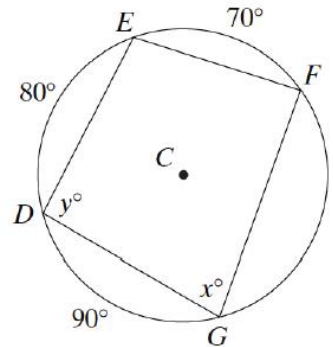
Set D

Workspace:

Problem Set D

3. Find the values of x and y .

4. Find: a.) $m\widehat{FG}$ b.) $m\widehat{DEF}$ c.) $m\widehat{EFG}$



3. _____

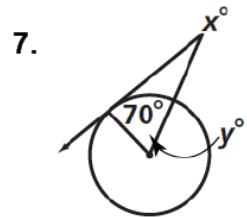
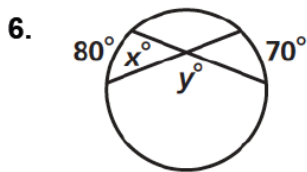
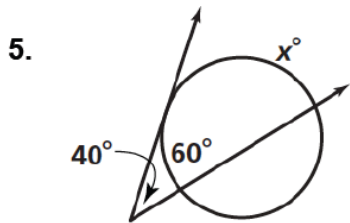
4. _____

Set C

Workspace:

Problem Set C

Assume that lines that appear to be tangent are tangent. Find the value of each variable.



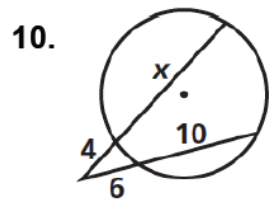
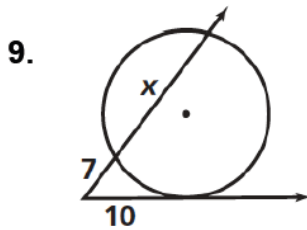
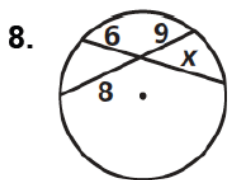
5. _____ 6. _____ 7. _____

Set B

Workspace:

Problem Set B

Find the value of x .



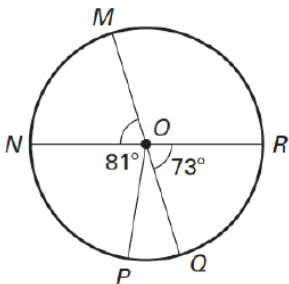
8. _____ 9. _____ 10. _____

Set A

Workspace:

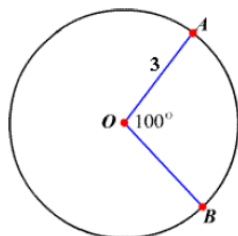
Problem Set A

11. Find the arc measures:

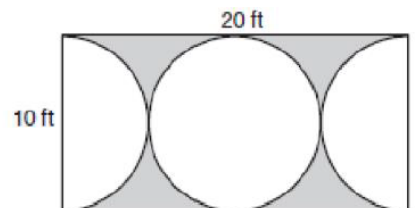


- a. $m\widehat{NQ}$
- b. $m\widehat{MRP}$
- c. $m\widehat{MNQ}$
- d. $m\widehat{MR}$

12. Find the length of arc AB and the corresponding sector AOB.



13. Edgar wants to lay white and gray tile in a rectangular hallway as seen below. About how much gray tile does he need?



11. _____ 12. _____ 13. _____

Answers:

1. $x = 5/2$
2. $x = 55$
3. $x = 75; y = 95$
4. a) 120° b) 150° c) 190°
5. $x = 140$
6. $x = 75; y = 105$
7. $x = 20; y = 70$
8. $x = 12$
9. $x = 51/7$
10. $x = 20$
11. a) 107 b) 206 c) 180 d) 107
12. Arc length = $5\pi/3$ units; Sector Area: $5\pi/2$ units²
13. $(200 - 50\pi)\text{ft}^2 \approx 42.9 \text{ft}^2$