Geometry Student Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Formative Assessment #2

Unit 4 – Circles Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_\_\_

SHOW ALL WORK FOR FULL CREDIT.

1. Identify each statement as true or false. *(1 mark each)*

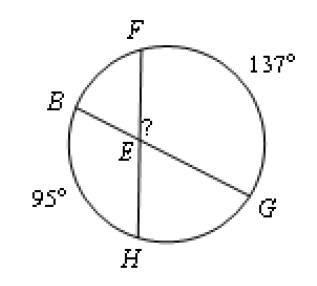
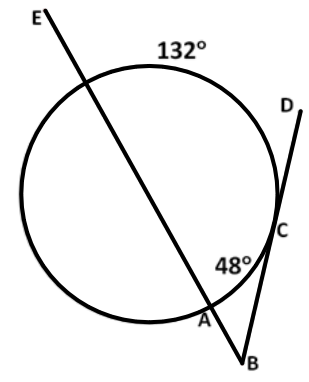
a. The degree measure of an arc is equal to half the measure of its central angle. \_\_\_\_\_\_\_\_\_\_\_\_\_

b. Two inscribed angles intercepting the same arc are congruent. \_\_\_\_\_\_\_\_\_\_\_\_\_

2. Complete the conjecture:

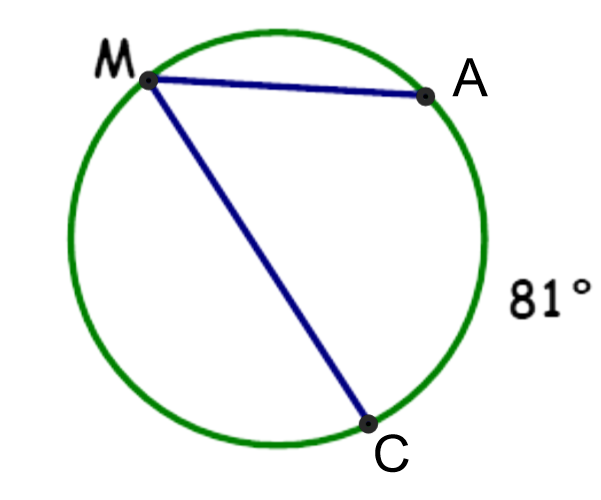
The opposite angles of a quadrilateral inscribed in a circle are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

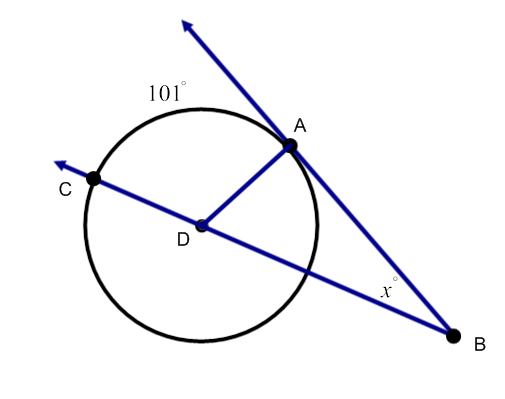
3. Find the missing measure. 4. Find the measure of .



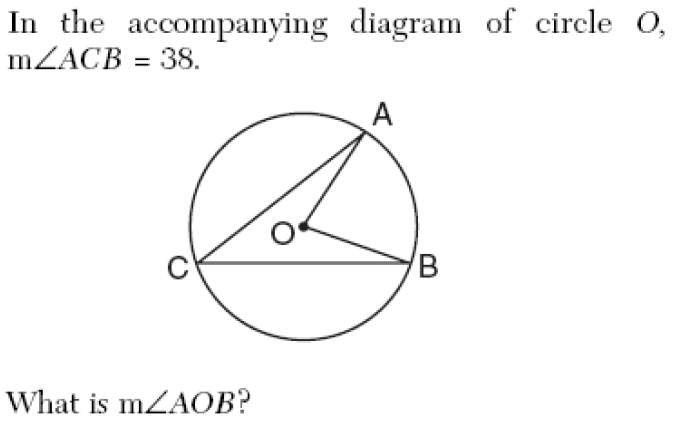
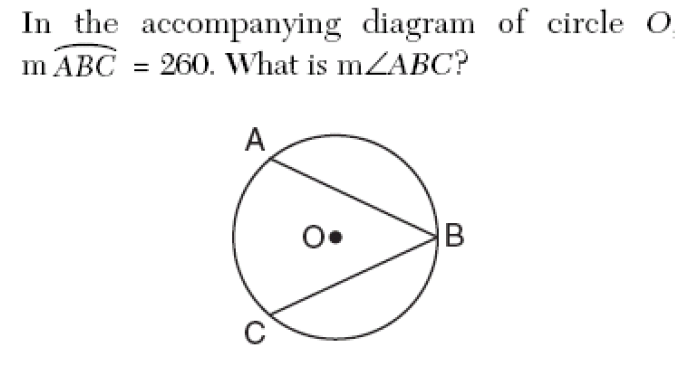
Missing measure = \_\_\_\_\_\_\_\_\_  = \_\_\_\_\_\_\_\_\_

5. Find the measure of .6. **is tangent to Circle *D* and .

 Find the value of x.

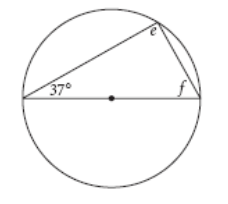


*= \_\_\_\_\_\_\_\_ x =* \_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. 8.

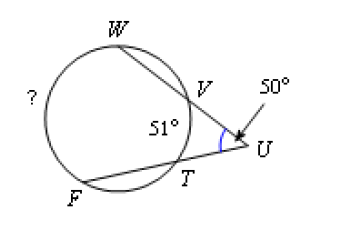
 *= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ * **=** \_\_\_\_\_\_\_\_\_\_\_

9. The circle below has the center marked. Determine the value of *e* and *f*.



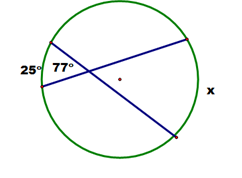
*e =* \_\_\_\_\_\_\_\_

*f =* \_\_\_\_\_\_\_\_



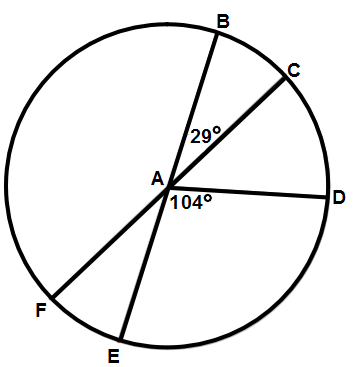
10. Find the missing measure.

Missing measure = \_\_\_\_\_\_\_\_\_

11. Find the value of x.

x = \_\_\_\_\_\_

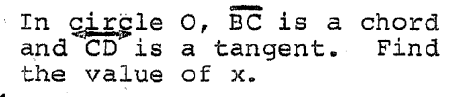
12. and are diameters of the circle A. Find the measure of the indicated arc.

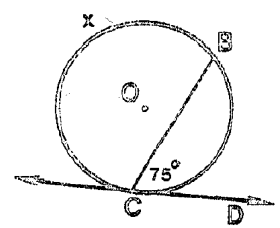


a. = \_\_\_\_\_\_\_\_\_ b. = \_\_\_\_\_\_\_\_\_

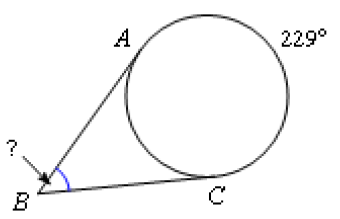
c. = \_\_\_\_\_\_\_\_ d. = \_\_\_\_\_\_\_\_

e. = \_\_\_\_\_\_\_\_ e. = \_\_\_\_\_\_\_\_

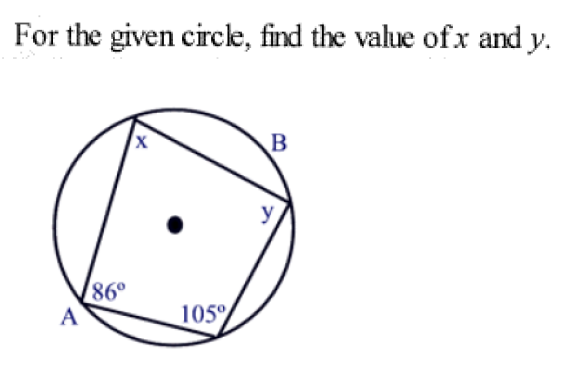


13.

x = \_\_\_\_\_\_\_\_\_\_

14. Find the .

= \_\_\_\_\_\_\_\_



15.

x = \_\_\_\_\_\_\_\_\_ y = \_\_\_\_\_\_\_\_\_