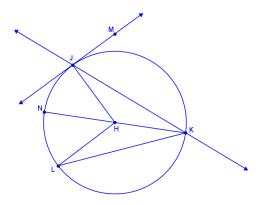
SM2 Unit 9B Extra Practice

Matching:

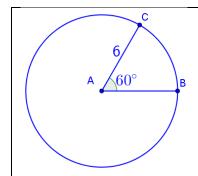
Select the vocabulary term that describes each object listed from the list on the right. Each vocabulary term must be used exactly once.



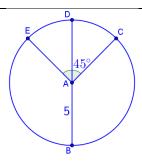
- _____ 1) *LK*
- _____ 2) *NH*
- _____ 3) *KN*
- _____ 4) *JK*
- _____ 5) *MJ*
- _____ 6) *H*
- _____ 7) *J*

- A. Radius
- B. Point of tangency
- C. Chord that is not a diameter
- D. Diameter
- E. Center of circle
- F. Secant Line
- G. Tangent Line

Free Response: Find the exact (=) length of the arc, approximate (\approx) length of the arc to the nearest tenth, and classify the arc. (Assume radii are in centimeters.)

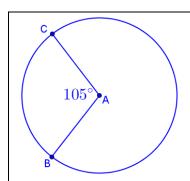


- 8) Length of $\widehat{BC} =$
- 9) Length of $\widehat{BC} \approx$
- 10) Classify \widehat{BC} : minor semicircle major



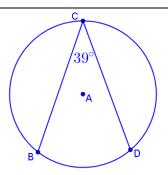
- 11) Length of $\widehat{BCE} =$
- 12) Length of $\widehat{BCE} \approx$
- 13) Classify \widehat{BCE} : minor semicircle major

Classify the object and then find the indicated measure.



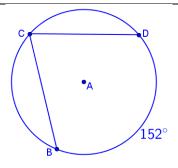
14) What type of angle is $\angle CAB$?

15) mCB =



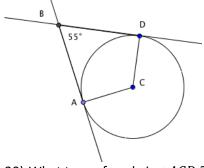
16) What type of angle is $\angle BCD$?

17) mBD =



18) What type of angle is $\angle BCD$?

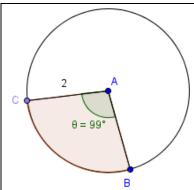
19) *m∠BCD* =



20) What type of angle is $\angle ACD$?

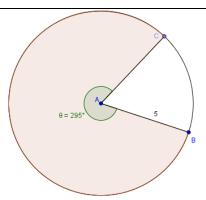
21) $m \angle ACD =$

Find the exact (=) area of the sector and the approximate (\approx) area of the sector to the nearest hundredth. (Assume radii are in yards.)



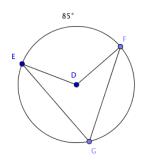
26) Area of the sector =

27) Area of the sector \approx



28) Area of the sector =

29) Area of the sector ≈



- 30) What type of angle is $\angle EDF$?
- a. Central Angle b. Inscribed Angle
 - c. Interior Angle
- d. Isosceles Angle

- 31) What type of angle is $\angle EGF$?
- a. Central Angle
- b. Inscribed Angle
- c. Interior Angle
- d. Isosceles Angle

- 32) What is $m \angle EDF$?
- a. 170

b. 85π

c. 42.5

d. 85

- 33) What is $m \angle EGF$?
- a. 170

b. 85π

c. 42.5

- d. 85
- 34) What is the area of the sector bounded by $\angle EDF$ and \widehat{EF} if the radius of the circle is 10 in?
- a. 14.82
- b. 850

- c. 74.18
- d. 85π
- 35) The ferris wheel at Lagoon is 150 ft tall with 36 gondolas. If you get in at the bottom of the ride and you get to go one-fourth of the way around before it stops to let on more passengers, what is the distance that you have traveled around the ferris wheel to the nearest foot?