

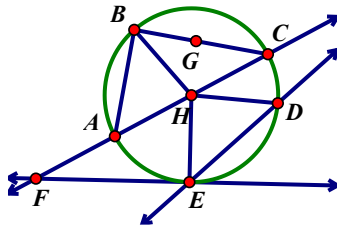
Circles

Review 12.1 – 12.3

Name _____

Match for Circle H. (Do not use a letter twice.)

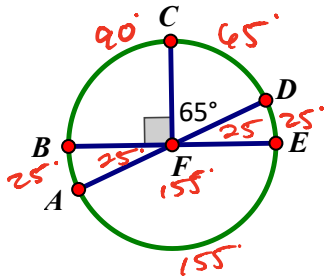
- #1) J Major Arc
- #2) I Diameter
- #3) G Chord
- #4) H Center
- #5) A Secant line



- A. ~~\overline{FC}~~
- B. \overline{BE}
- C. \overline{HD}
- D. \overline{FE}
- E. \widehat{ADC}
- F. Point F
- G. ~~\overline{BC}~~
- H. ~~Point H~~
- I. ~~\overline{CA}~~
- J. ~~\widehat{ABE}~~

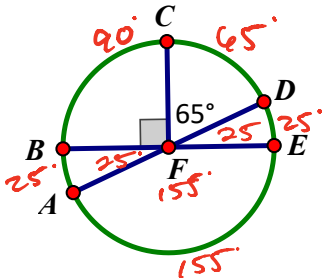
C #6) What is $m\widehat{DAB}$?

- A. 155°
- B. 180°
- C. 205°
- D. 215°
- E. 245°



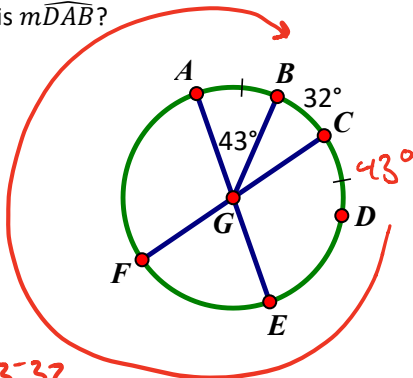
D #7) What is $m\widehat{AB}$?

- A. 10°
- B. 15°
- C. 20°
- D. 25°
- E. 35°



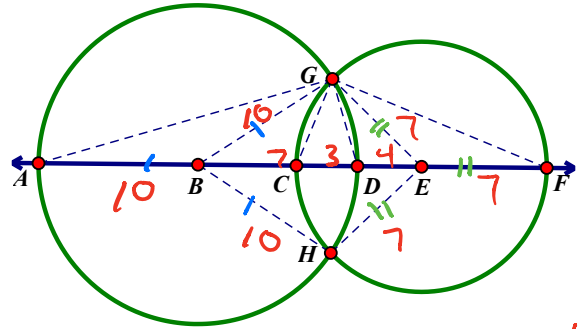
C #8) What is $m\widehat{DAB}$?

- A. 95°
- B. 275°
- C. 285°
- D. 317°
- E. 328°



$m\widehat{DAB} = 360 - 43 - 32$

Circles B and E have radii of 10 cm & 7 cm respectively, and CD is 3 cm. Use this information to determine the missing values.



#9) DE = 4

#10) AF = 31

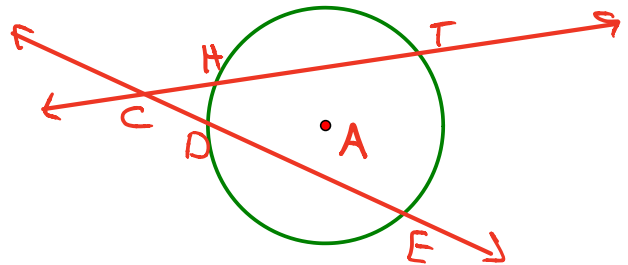
#11) AE = 24

#12) Perimeter of $\triangle BGE$ = 31

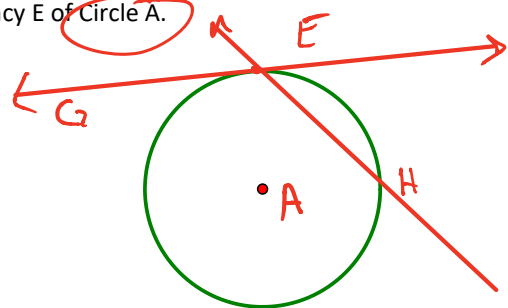
#13) Perimeter of Quad. BHGE = 34

Draw the following relationships.

#14) Secant \overleftrightarrow{HT} and secant \overleftrightarrow{DE} intersect circle A at H, T, D and E respectively. The secants intersect each other in the exterior at point C.



#15) Tangent \overleftrightarrow{GE} intersects secant \overleftrightarrow{HE} at the point of tangency E of Circle A.



Circles

Review 12.1 – 12.3

Name _____

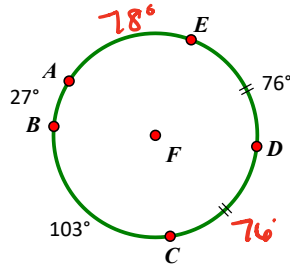
Determine each measure.

#16) $m\widehat{AE} = 78^\circ$

#17) $m\widehat{ABD} = 206^\circ$

#18) $m\widehat{DA} = 154^\circ$

#19) $m\widehat{BCE} = 255^\circ$



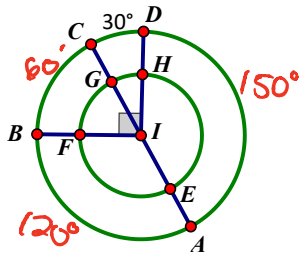
Given concentric circles with $m\widehat{CD} = 30^\circ$ and \overline{CA} is a diameter.

#20) $m\angle GIF = 60^\circ$

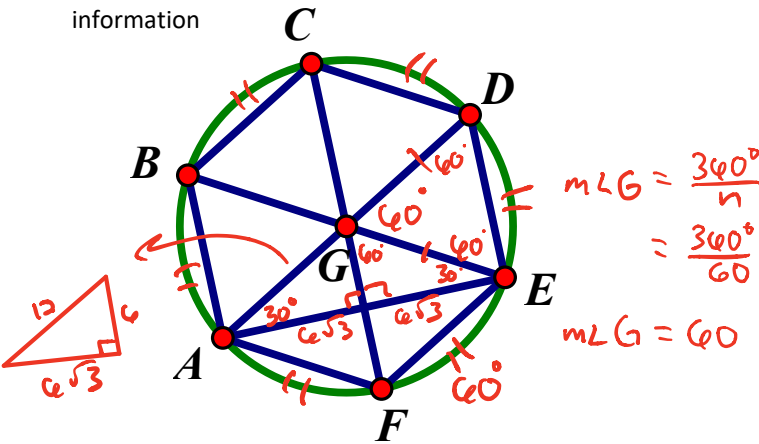
#21) $m\widehat{HE} = 150^\circ$

#22) $m\widehat{FEH} = 270^\circ$

#23) $m\angle BIA = 120^\circ$



Given a regular hexagon ABCDEF. Determine the missing information



#24) $m\angle BGC = 60^\circ$ #25) $m\angle GCD = 60^\circ$

#26) $m\widehat{AE} = 120^\circ$ #27) $m\widehat{CEA} = 240^\circ$

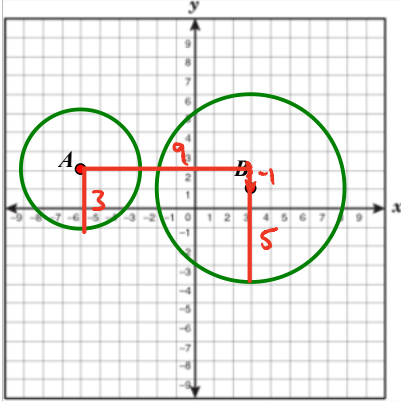
#28) $m\angle GAE = 30^\circ$

#29) What type of Δ is ΔEGD ? Equilateral \rightarrow Equiangular

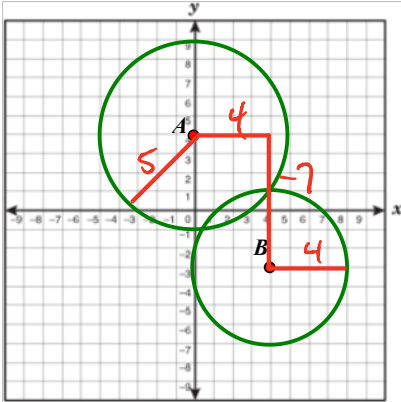
#30) If $GA = 12$ cm, what is $AE = 12\sqrt{3}$ (exact)

Determine the translation vector and scale factor of the dilation for the following similarity transformations.

#31) Circle A to Circle B
Translate Vector $\langle 9, -1 \rangle$, $D_B, \frac{5}{3}$ ($\odot A$) = $\odot B$



#32) Circle A to Circle B
Translate Vector $\langle 4, -7 \rangle$, $D_B, \frac{4}{5}$ ($\odot A$) = $\odot B$



#33) Circle B to Circle A
Translate Vector $\langle 3, 6 \rangle$, $D_A, 1$ ($\odot B$) = $\odot A$

