

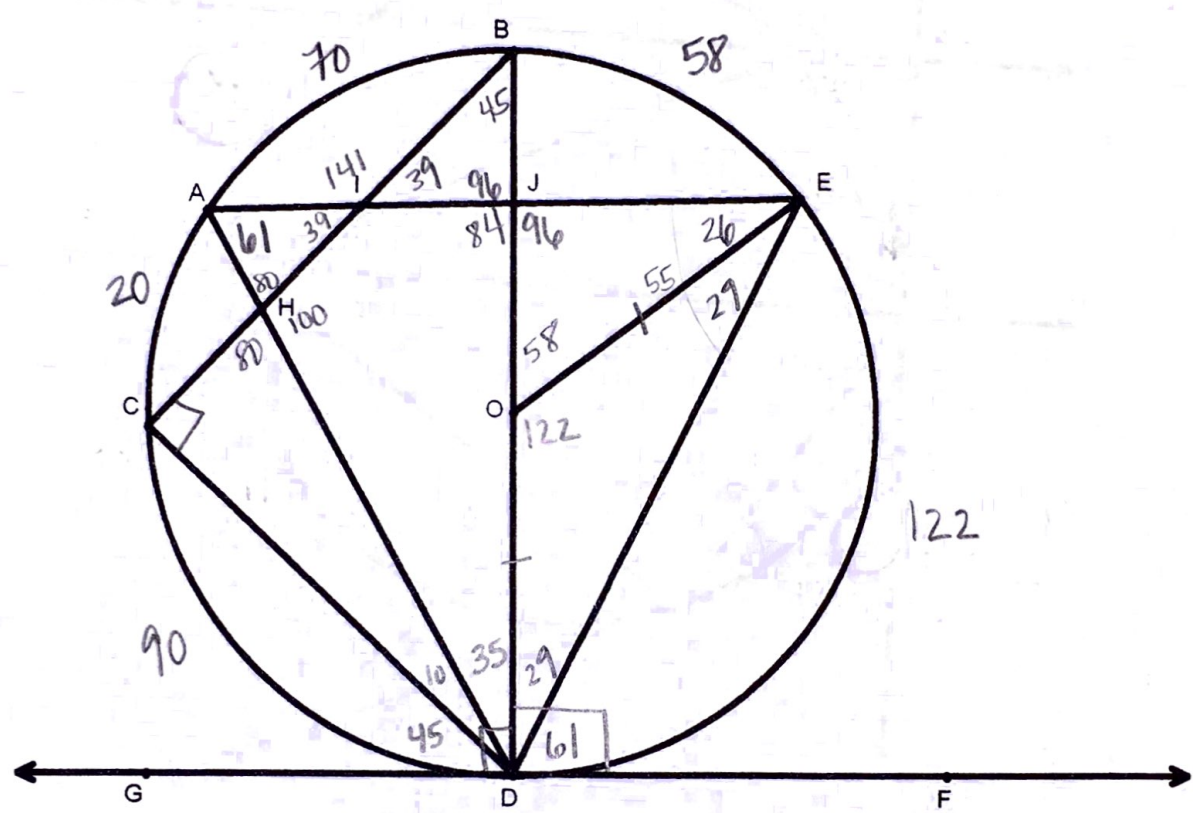
QUIZ DAY CW#1-3
HW#2 #6,
#4 #5
WARRIOR 700

Big Circle Puzzle #1

Label the circle with the given information, then find the measure of each angle and arc below. Write the measure of each angle and arc as you find it on the circle, and use tick marks to designate congruent angles. Check your work as you proceed. Do not make any assumptions. Remember to record your answers as you work through the circle.

Given: \overleftrightarrow{GF} is tangent to Circle O at D. \overline{BD} is a diameter.

$m\widehat{DE} = 122$, $m\widehat{AC} = 20$, $m\widehat{DC} = 90$

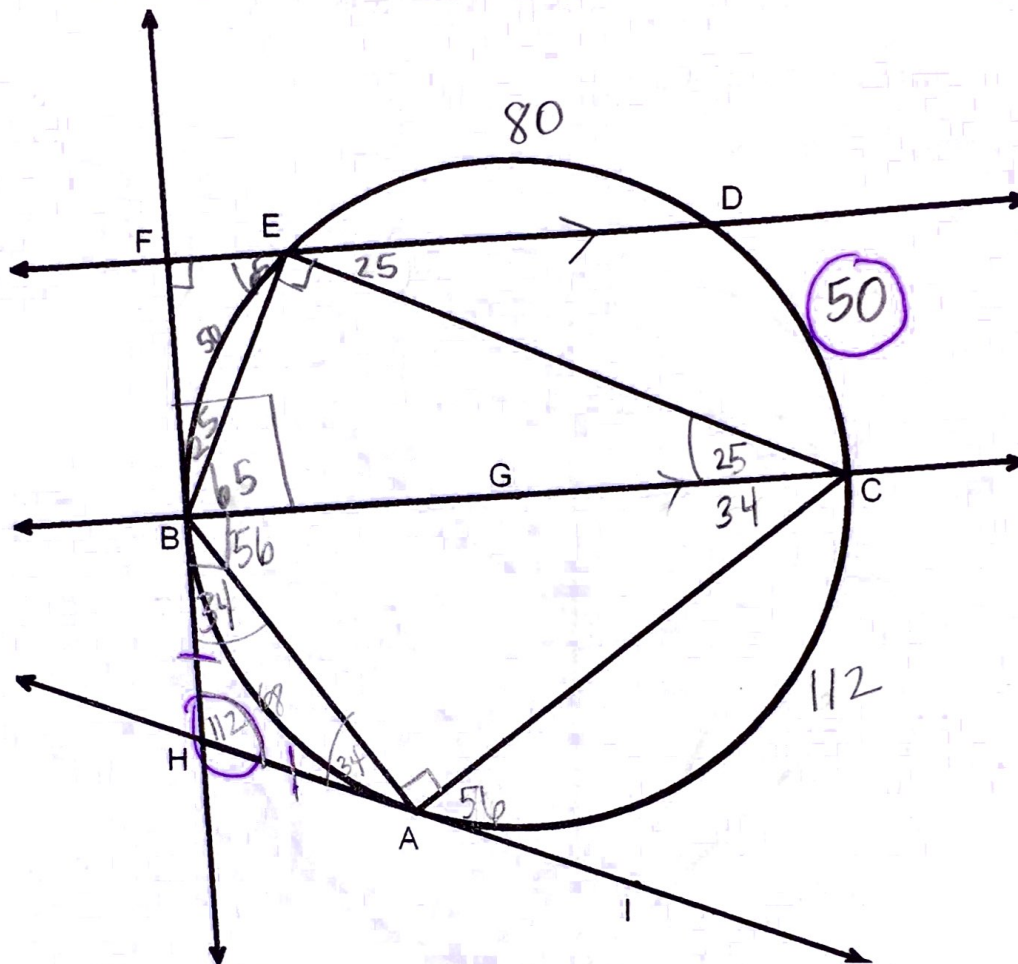


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|------------------------------------|--------------------------------------|---|------------------------------------|
| 1. $m\angle EDF = \underline{61}$ | 8. $m\angle CDG = \underline{45}$ | 15. $m\angle BDF = \underline{90}$ | 22. $m\angle AJB = \underline{96}$ |
| 2. $m\angle DOE = \underline{122}$ | 9. $m\widehat{AB} = \underline{70}$ | 16. $m\angle CDB = \underline{45}$ | 23. $m\angle EJD = \underline{96}$ |
| 3. $m\angle OED = \underline{29}$ | 10. $m\widehat{BE} = \underline{58}$ | 17. $m\angle AIB = \underline{141}$ <small>$\frac{1}{2}(70+212)$</small> | 24. $m\angle AJD = \underline{84}$ |
| 4. $m\angle ODE = \underline{29}$ | 11. $m\angle ADB = \underline{35}$ | 18. $m\angle CHD = \underline{80}$ <small>$\frac{1}{2}(90+70)$</small> | 25. $m\angle JEO = \underline{26}$ |
| 5. $m\angle BDG = \underline{90}$ | 12. $m\angle DAE = \underline{61}$ | 19. $m\angle DHB = \underline{100}$ | |
| 6. $m\angle BCD = \underline{90}$ | 13. $m\angle AED = \underline{55}$ | 20. $m\angle AIC = \underline{39}$ | |
| 7. $m\angle ADC = \underline{10}$ | 14. $m\angle BOE = \underline{58}$ | 21. $m\angle BIJ = \underline{39}$ | |

Big Circle Puzzle #2 ✓

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Given: Circle G, $FD \parallel BC$, HB and HA are tangents, $m\angle BHA = 112^\circ$, and $m\widehat{DC} = 50^\circ$



Find each of the following measurements:

$$m\angle BEC = \underline{90} \quad m\angle CED = \underline{25} \quad m\angle BEF = \underline{65}$$

$$m\angle ECB = \underline{25} \quad m\angle HBA = \underline{34} \quad m\widehat{ED} = \underline{80}$$

$$m\widehat{BE} = \underline{50} \quad m\widehat{BA} = \underline{68} \quad m\widehat{ACE} = \underline{242}$$

$$m\angle EBC = \underline{65} \quad m\angle CAI = \underline{56} \quad m\angle EFB = \underline{90}$$

$$m\angle BAI = \underline{146} \quad m\angle ABC = \underline{56}$$

