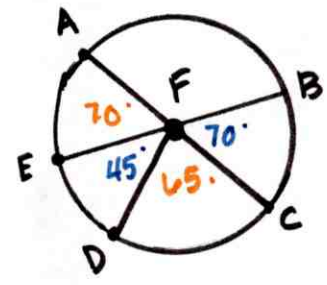


10.2

3) \widehat{BC} minor
 $= 70^\circ$

4) \widehat{DC} minor
 $= 180 - (45 + 70)$
 $= 65^\circ$

5) \widehat{DB} minor
 $180 - 45$ or $65 + 70$
 $= 135^\circ$



6) \widehat{AE} minor
 $= 70^\circ$

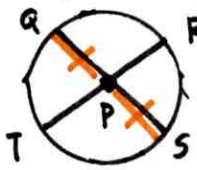
7) \widehat{AD} minor
 $70 + 45$
 $= 115^\circ$

8) \widehat{ABC} semicircle
 $= 180^\circ$

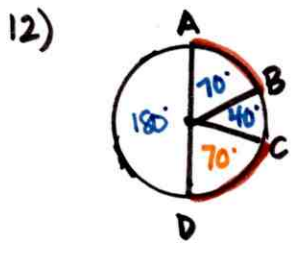
9) \widehat{ACD} major
 $180 + 65$
 $= 245^\circ$

10) \widehat{EAC} major
 $70 + 180$
 $= 250^\circ$

11) \overline{QS} is a diameter of $\odot P$. which arc represents the semicircle?

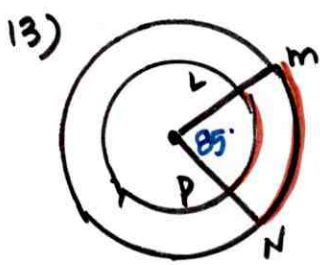


- A) \widehat{QR} B) \widehat{RQT}
C) \widehat{QRS} D) \widehat{QRT}

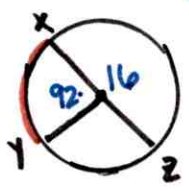
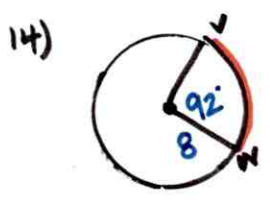


$\widehat{DC} = 180 - (70 + 40)$
Yes b/c their measures are the same

$\widehat{AB} \cong \widehat{CD}$

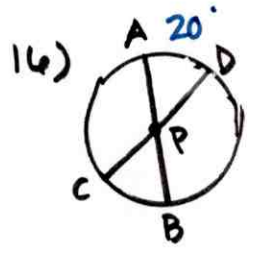


NO b/c they are not congruent circles



Yes b/c they are \cong circles and they have the same measures.

$\widehat{WY} \cong \widehat{XZ}$



$m\widehat{ACD} = 360 - 20$
 $= 340^\circ$
 $m\widehat{AC} = 180 - 20$
 $= 160^\circ$

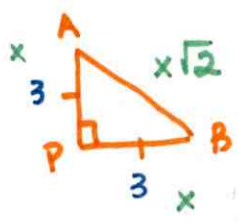
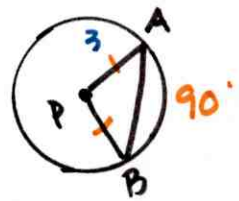
17) $\odot P$ has a radius of 3 and \widehat{AB} has a measure of 90° . what is the length of \overline{AB} ?

A) $3\sqrt{2}$

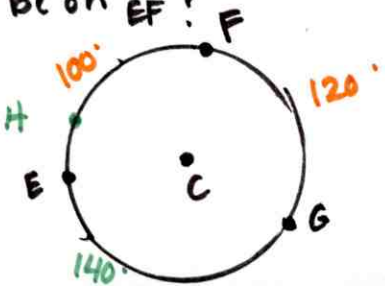
B) $3\sqrt{3}$

C) 6

D) 9

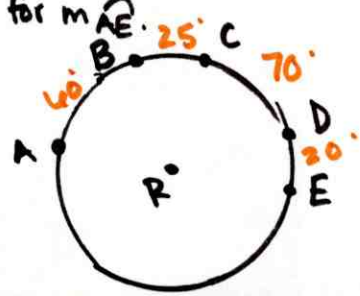


18) On $\odot C$, $m\widehat{EF} = 100^\circ$; $m\widehat{FG} = 120^\circ$ and $m\widehat{EFG} = 220^\circ$. If H is on \overline{OC} so that the $m\widehat{GH} = 150^\circ$, why must H be on \widehat{EF} ?



$m\widehat{EG} = 140^\circ$ therefore H must be of \widehat{EF} b/c it is 150.

19) In $\odot R$, $m\widehat{AB} = 60^\circ$, $m\widehat{BC} = 25^\circ$, $m\widehat{CD} = 70^\circ$ and $m\widehat{DE} = 20^\circ$. Find 2 possible values for $m\widehat{AE}$.



$m\widehat{AE} = 175^\circ$
 or
 $m\widehat{AE} = 360 - 175$
 $= 185^\circ$