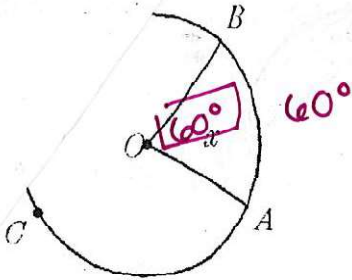
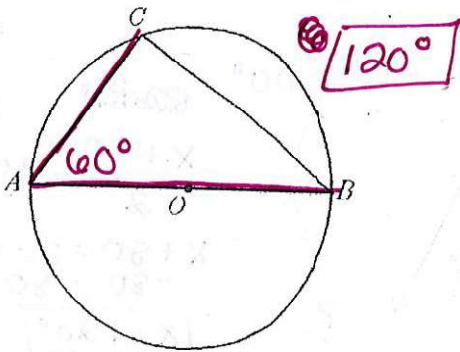
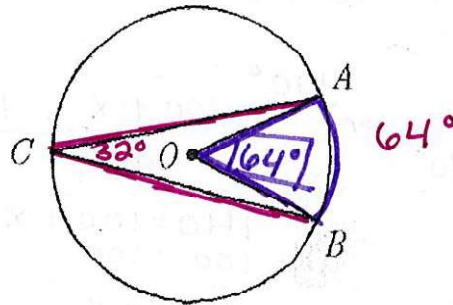


= arc)

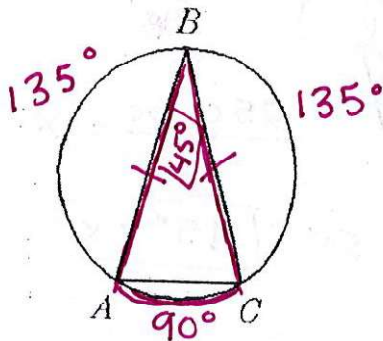
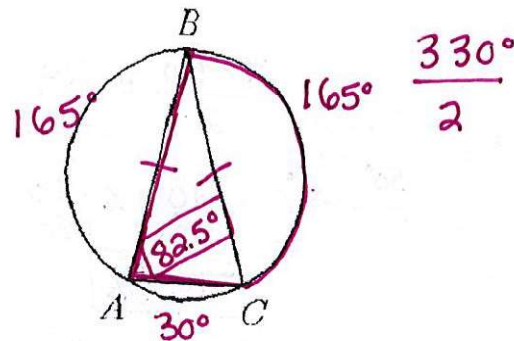
at is x?

**II. Inscribed "ON" Angles (angle =  $\frac{1}{2}$  arc)**3. Find  $m\widehat{CB}$  if  $m\angle A = 60^\circ$ 2. If the measure of a central angle is  $120^\circ$ , what would the intercepted arc be? $120^\circ$ 4. Find  $m\angle O$  if  $m\angle ACB = 32^\circ$ 5. If the measure of an inscribed angle is  $73^\circ$ , what would its intercepted arc be?

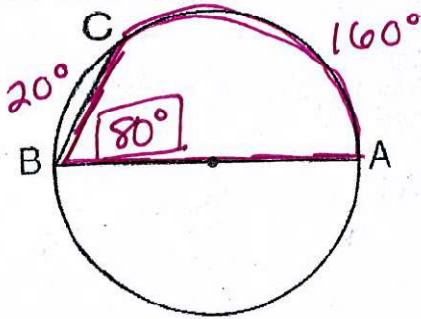
$$73^\circ \cdot 2 = \boxed{146^\circ}$$

6. What is the measure of an inscribed angle if its intercepted arc is  $210^\circ$ ?

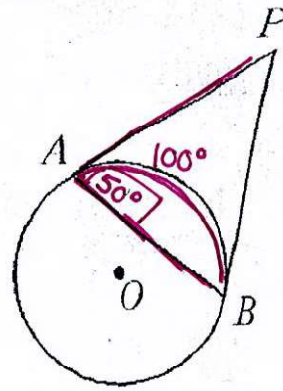
$$\frac{210^\circ}{2} = \boxed{105^\circ}$$

7. Find Angle B if  $\triangle ABC$  is an isosceles triangle and  $m\widehat{CB} = 135^\circ$ 8. Find  $m\angle BAC$  if  $\triangle ABC$  is an isosceles triangle and  $m\widehat{AC} = 30^\circ$ 

9. Find  $m\angle CBA$  if  $m\widehat{CB} = 20^\circ$

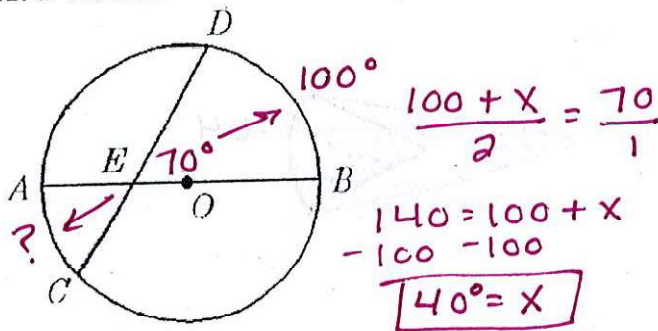


10. If  $m\widehat{AB} = 100^\circ$ , what is  $m\angle PAB$ ?

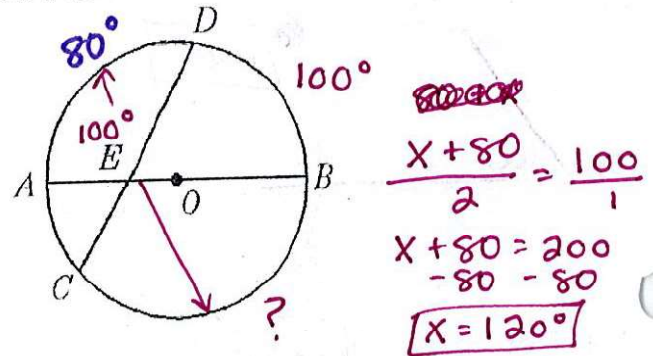


III. "IN" Angles  $angle = \frac{big\ arc + small\ arc}{2}$

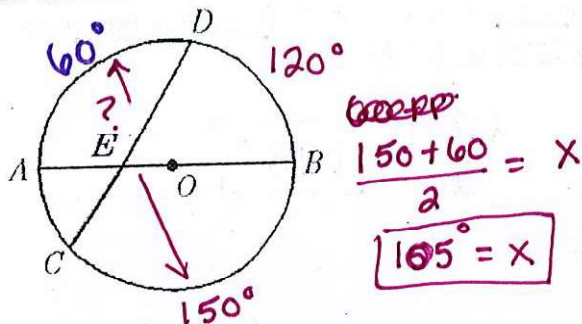
11. If  $m\angle DEB = 70^\circ$  and  $m\widehat{DB} = 100^\circ$ , what is  $m\widehat{AC}$ ?



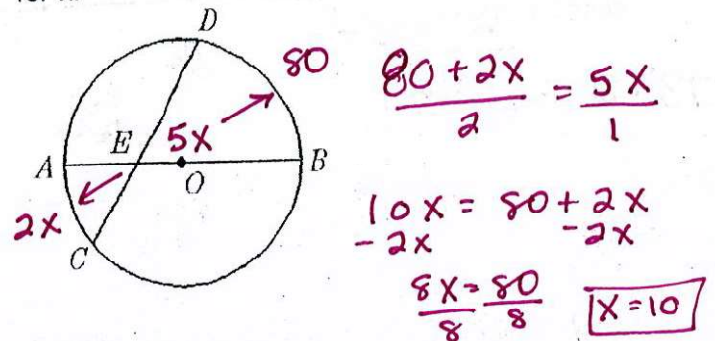
12. If  $m\angle DEA = 100^\circ$  and  $m\widehat{DB} = 100^\circ$ , what is  $m\widehat{CB}$ ?



13. If  $m\widehat{DB} = 120^\circ$  and  $m\widehat{CB} = 150^\circ$ , what is  $m\angle DEA$ ?

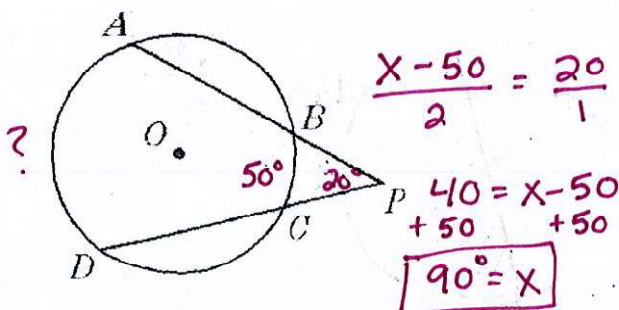


14. If  $m\angle DEB = 5x$ ,  $m\widehat{DB} = 80^\circ$ , and  $m\widehat{AC} = 2x$ , solve for x.



IV. "OUT" Angles  $angle = \frac{big\ arc - small\ arc}{2}$

15.  $m\angle APD = 20^\circ$  and  $m\widehat{BC} = 50^\circ$ , what is  $m\widehat{AD}$ ?



16. Find  $\angle P$  if  $m\widehat{BC} = 50^\circ$  and  $m\widehat{AB} = 60^\circ$ .

