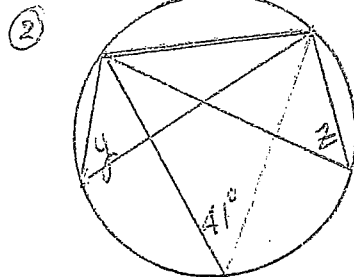
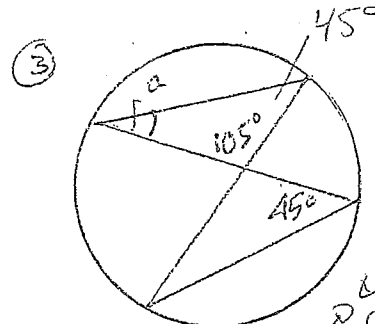


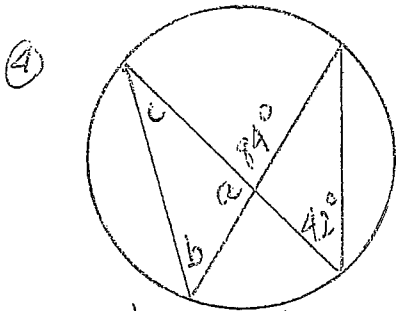
$x = 35^\circ$
(Δ 's opposite equal chords are =)



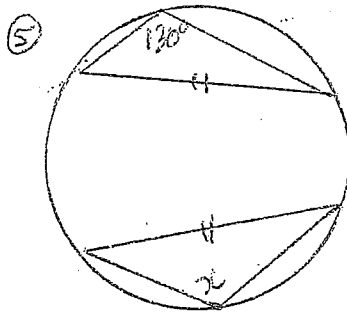
$y = 41^\circ, z = 41^\circ$
(Δ 's opposite equal chords are =)



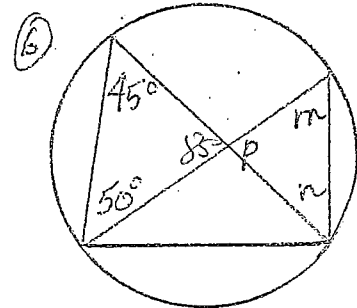
$\Delta a = 30^\circ$
($180^\circ - 105^\circ - 45^\circ = 30^\circ$)
(Δ 's in a Δ add to 180°)



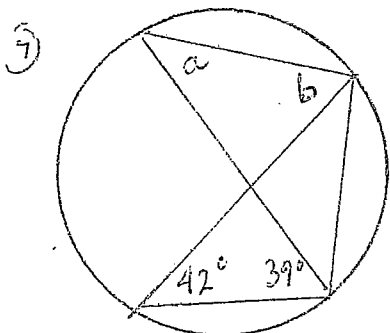
$b = 42^\circ$ (Δ 's opp = arcs)
 $a = 96^\circ$ (Δ 's on a line)
 $c = 42^\circ$ (Δ 's in a Δ add to 180°)



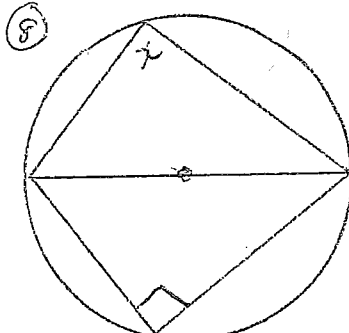
$x = 130^\circ$ (Δ 's opp = chords)



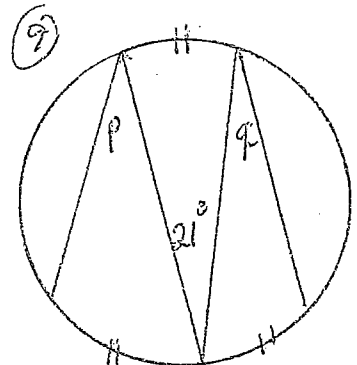
$p = 85^\circ$ (vertically opp Δ 's are =)
 $n = 50^\circ$ (Δ 's opp = arcs are =)
 $m = 45^\circ$ (Δ 's opp = chords are =)



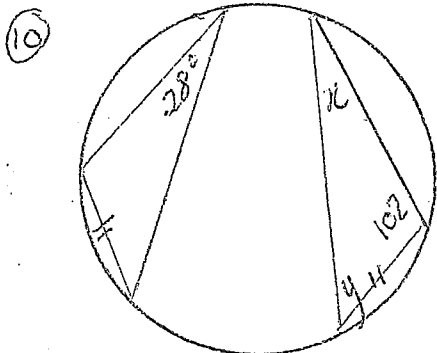
$\Delta a = 42^\circ$ (Δ 's opp = chords are =)
 $\Delta b = 39^\circ$ (Δ 's opp = arcs are =)



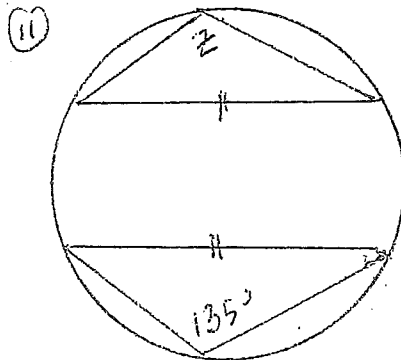
$\Delta x = 90^\circ$ (Δ 's opp = chords are =)



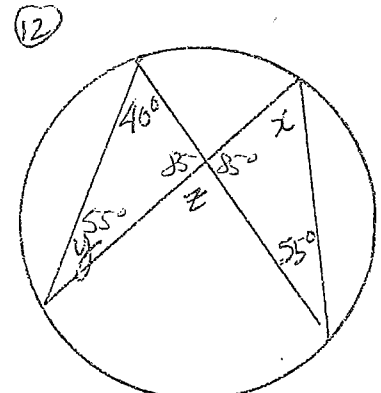
$\Delta p = \Delta q = 21^\circ$
 Δ 's opp = arcs are =



$\Delta x = 28^\circ$ (Δ 's opp = arcs are =)
 $\Delta y = 50^\circ$ (Δ 's in a Δ add to 180°)



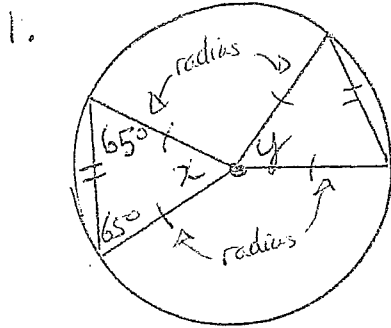
$\Delta z = 135^\circ$
(Δ 's opp = chords are =)



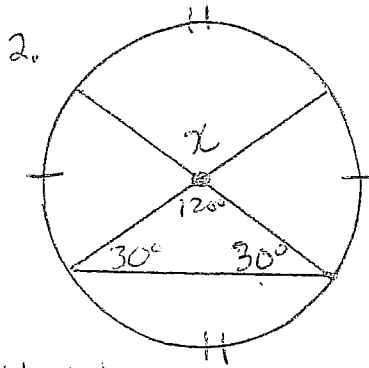
$\Delta x = 40^\circ$ (Δ 's opp = arcs are =)
 $\Delta y = 55^\circ$ (Δ 's opp = arcs are =)
 $\Delta z = 95^\circ$ (Δ 's around a pt add to 360°)
 $\Delta (360 - 85 - 85) = 95^\circ$

Central Angles

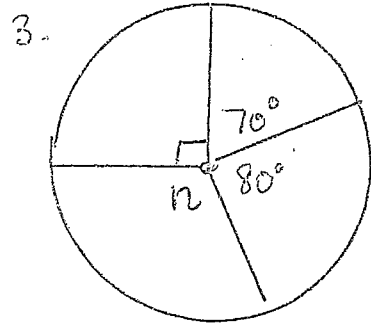
Name:



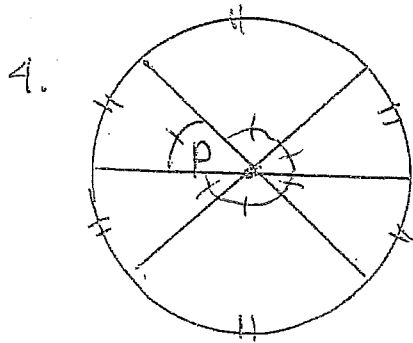
$\angle x = 50^\circ$ (Δ 's in a Δ add to 180°)
 $\angle y = 50^\circ$ (central \angle 's on = chords are =)



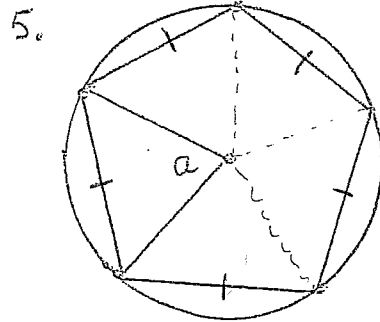
$\angle x = 120^\circ$
 central \angle 's opp = arcs are =



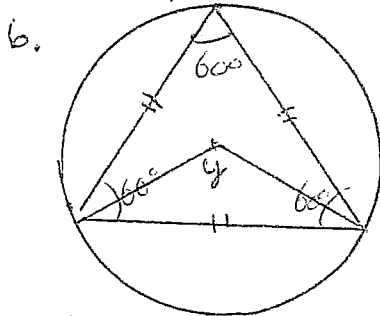
$n = 120^\circ$
 $\hookrightarrow \Delta$'s around a pt add to 360°



each central angle is =
 because equal arcs (each same as 'p')
 $\therefore \frac{6p}{6} = \frac{360^\circ}{6}$
 $p = 60^\circ$



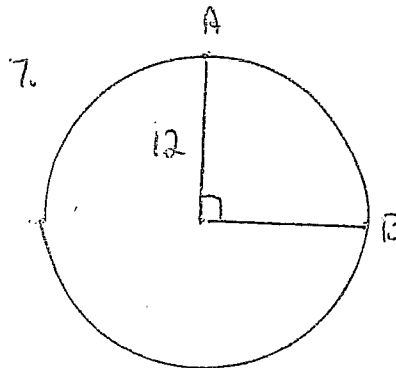
$\angle a = 72^\circ$
 \rightarrow 5 equal chords, thus
 $\frac{360^\circ}{5} = 72^\circ$



Equilateral Δ , \therefore each angle of outside Δ is 60°
 $\hookrightarrow y = 120^\circ$

\hookrightarrow central \angle on equal/same chord is twice the size of inscribed \angle

* need next lesson for this question *



Find the length of arc \widehat{AB}
 * think about finding "part" of the circumference

\widehat{AB} is $\frac{1}{4}$ of the circumference

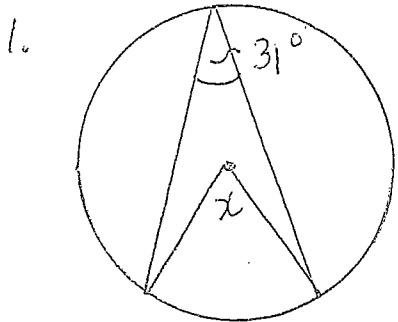
$$C = 2\pi r$$

$$= 2\pi(12)$$

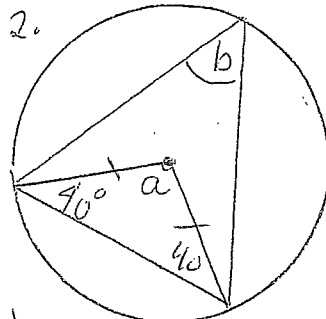
$$= 75.4$$

$\therefore \widehat{AB}$ is $\frac{1}{4}$ of 75.4 or 18.85 12

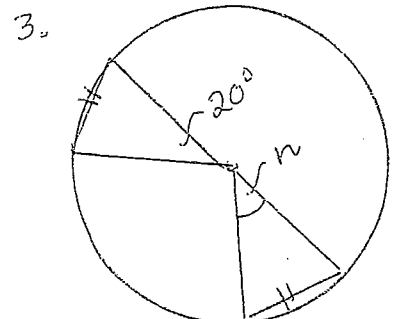
Pm 9 Central/Inscribed Angles Name



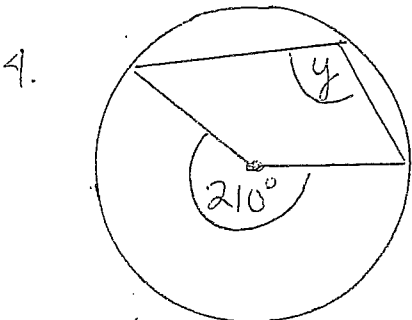
$\Delta x = 62^\circ$ (double inscribed Δ)



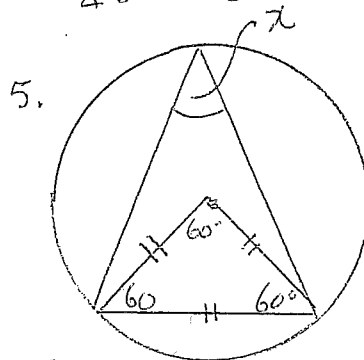
$\Delta a = 100^\circ$ (Δ 's in a Δ)
 $\Delta b = 50^\circ$ ($1/2$ central Δ)



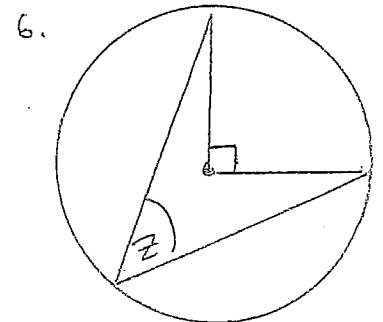
$\Delta n = 20^\circ$ (central Δ on = chord)



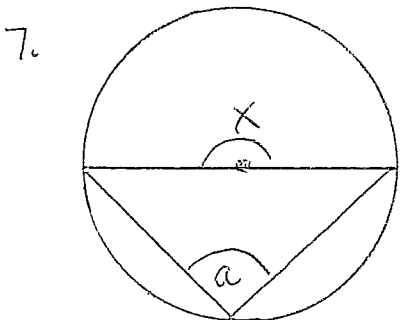
$\Delta y = 105^\circ$ ($1/2$ central Δ)



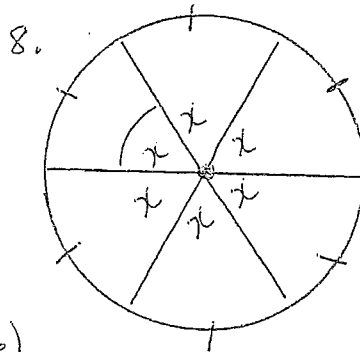
(1) - equilateral Δ
 (2) $\Delta x = 30^\circ$ ($1/2$ central Δ)



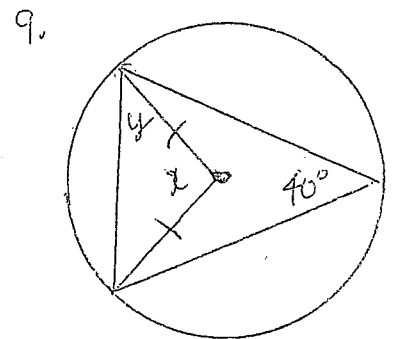
$\Delta z = 45^\circ$ ($1/2$ central Δ)



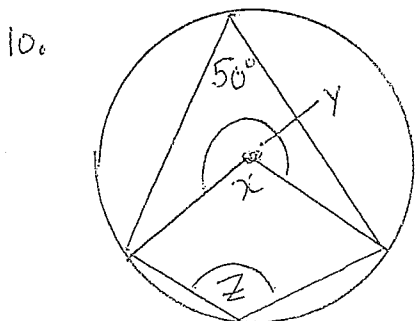
$\Delta x = 180^\circ$ (straight line)
 $\Delta a = 90^\circ$ ($1/2$ central Δ)



$\Delta x = 60^\circ$
 ($6x = 360$)
 (Δ 's with = arcs)



$\Delta x = 80^\circ$ (double inscribed Δ)



$\Delta x = 100^\circ$ (double inscribed Δ)
 $\Delta y = 260^\circ$ (Δ 's around a pt add to 360°)
 $\Delta z = 130^\circ$ ($1/2$ central Δ)