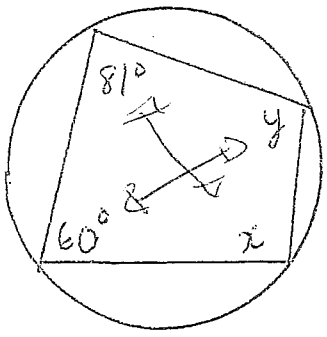
Pm 9 Cyclic Quadrilaterals Name:

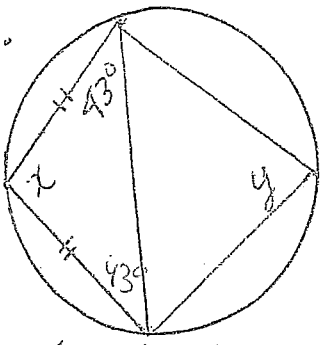
1.



$x = 99°$

$y = 120°$

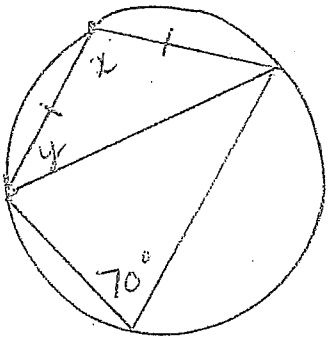
2.



$\angle x = 94°$ ($\angle$'s in a $\triangle$)

$\angle y = 86°$

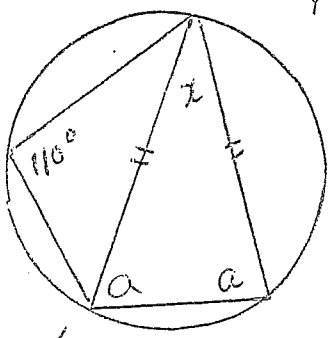
3.



$\angle x = 110°$

$\angle y = 35°$ ($\angle$'s opp = sides are =)

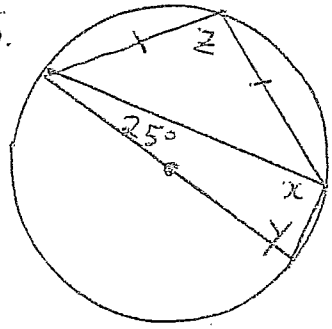
4.



$\angle a = 70°$

$\angle x = 40°$ ($\angle$ sum a $\triangle$

5.

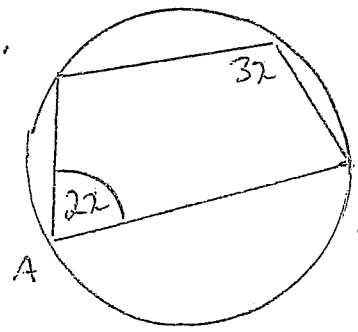


$\angle x = 90°$ (semi circle property)

$\angle y = 65°$ ($\angle$s in a $\triangle$)

$\angle z = 115°$

6.



Find $\angle A$

$5x = 180$

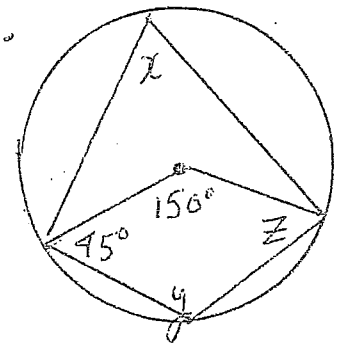
$x = 36$

$\angle A = 2x$

$= 2(36)$

$= 72°$

7.

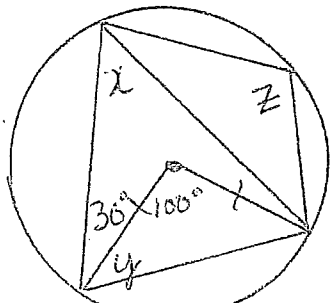


$x = 75°$ (½ central $\angle$)

$y = 105°$

$z = 60°$ ($\angle$'s in a quadrilateral add to 360°)

8.

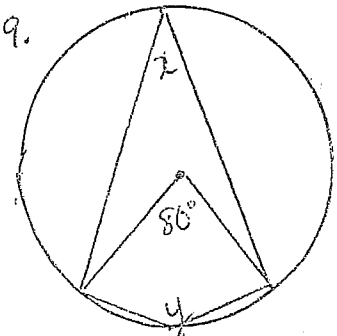


$\angle x = 50°$ (½ central)

$\angle y = 40°$ ($\angle$'s opp = sides are =)

$\angle z = 110°$ (opp side of quad is 30° + 40°)

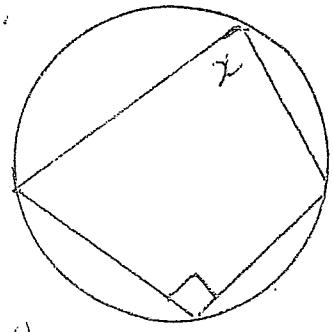
9.



$x = 40°$ (½ central)

$y = 140°$

10.



$\angle x = 90°$