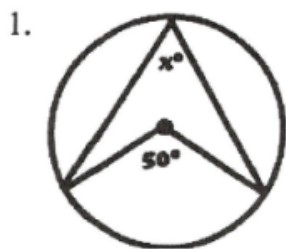
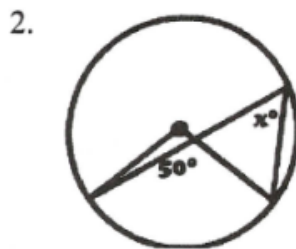


Circle Geometry

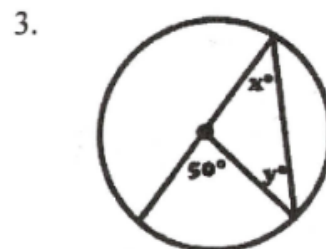


$x^\circ = \underline{25^\circ}$

Review #1

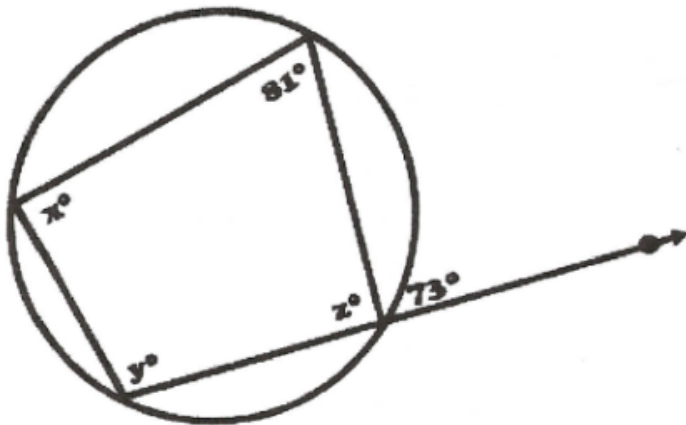


$x^\circ = \underline{25^\circ}$



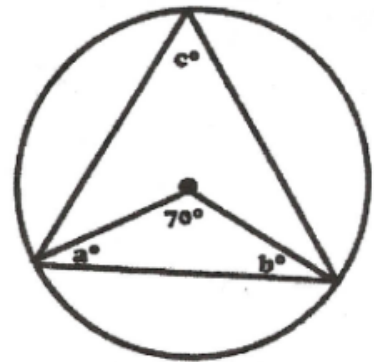
$x^\circ = \underline{25^\circ}$ $y^\circ = \underline{25^\circ}$

4.



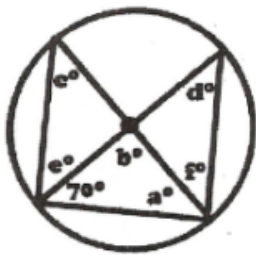
$$\begin{aligned}x^\circ &= \underline{73^\circ} \\y^\circ &= \underline{99^\circ} \\z^\circ &= \underline{107^\circ}\end{aligned}$$

5.



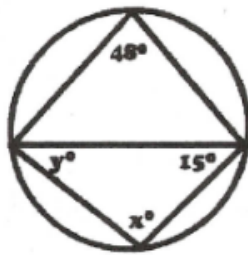
$$\begin{aligned}a^\circ &= \underline{55^\circ} \\b^\circ &= \underline{55^\circ} \\c^\circ &= \underline{35^\circ}\end{aligned}$$

6.



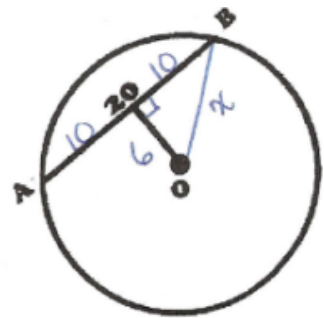
$$\begin{aligned} a^\circ &= \underline{70^\circ} \\ b^\circ &= \underline{40^\circ} \\ c^\circ &= \underline{20^\circ} \\ d^\circ &= \underline{20^\circ} \\ e^\circ &= \underline{20^\circ} \\ f^\circ &= \underline{20^\circ} \end{aligned}$$

7.



$$\begin{aligned} x^\circ &= \underline{132^\circ} \\ y^\circ &= \underline{33^\circ} \end{aligned}$$

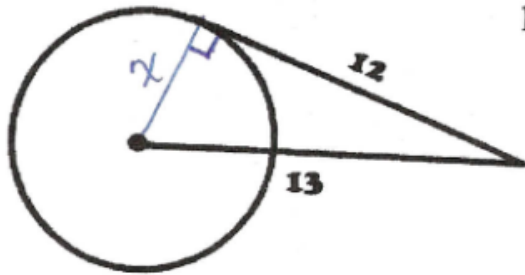
8.



Find the radius.

$$\begin{aligned} c^2 &= a^2 + b^2 \\ c^2 &= (6)^2 + (10)^2 \\ c^2 &= 36 + 100 \\ c^2 &= 136 \\ c &= \sqrt{136} \\ c &= 11.7 \text{ or } 2\sqrt{34}. \end{aligned}$$

9.



Find the radius.

$$c^2 = a^2 + b^2$$

$$(13)^2 = (12)^2 + (x)^2$$

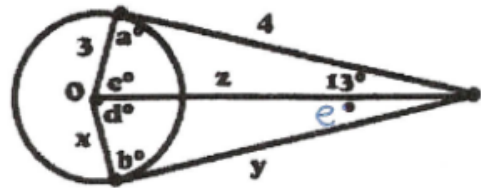
$$169 = 144 + x^2$$

$$169 - 144 = x^2$$

$$25 = x^2$$

$$5 = x$$

10.



$a^\circ = \underline{90^\circ}$	$x = \underline{3}$
$b^\circ = \underline{90^\circ}$	$y = \underline{4}$
$c^\circ = \underline{77^\circ}$	$z = \underline{5}$
$d^\circ = \underline{77^\circ}$	
$e^\circ = \underline{13^\circ}$	

To find "z":

$$c^2 = a^2 + b^2$$

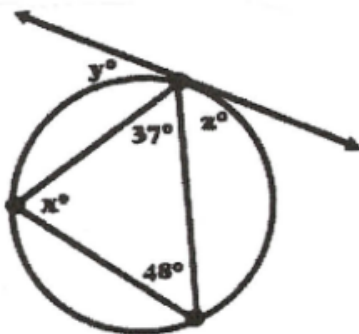
$$c^2 = (3)^2 + (4)^2$$

$$c^2 = 9 + 16$$

$$c^2 = 25$$

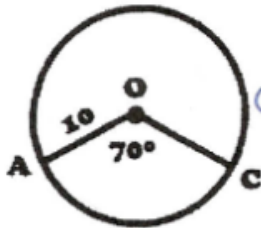
$$c = 5$$

11.



$x^\circ = \underline{95^\circ}$
$y^\circ = \underline{48^\circ}$
$z^\circ = \underline{95^\circ}$

12.



Find the Sector Area and the Arc Length.

$$\begin{aligned} \textcircled{1} \quad A &= \pi r^2 \\ &= \pi (10)^2 \\ &= \pi (100) \\ &= 314.16 \end{aligned}$$

$$\begin{aligned} \textcircled{1} \quad \frac{SA}{A_{ofC}} &= \frac{\text{Angle}}{360^\circ} \\ \frac{SA}{314.16} &= \frac{70^\circ}{360^\circ} \\ \frac{(SA)(360^\circ)}{360^\circ} &= \frac{(314.16)(70^\circ)}{360^\circ} \\ SA &= 61.09 \text{ units}^2 \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad C &= 2\pi r \\ &= 2\pi (10) \\ &= 62.83 \end{aligned}$$

$$\begin{aligned} \frac{A.L.}{C} &= \frac{\text{Angle}}{360^\circ} \\ \frac{A.L.}{62.83} &= \frac{70^\circ}{360^\circ} \\ \frac{(A.L.)(360^\circ)}{360^\circ} &= \frac{(62.83)(70^\circ)}{360^\circ} \\ A.L. &= 12.22 \text{ units} \end{aligned}$$