

Homework Review Pg 534 #47-50, 52

Pg 540-541 # 11-17000, 23-25, 39

(47) measure of major arc $> 180^\circ$? ALWAYS

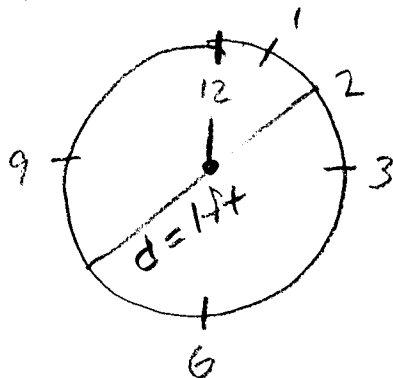
(48) central $\angle$ of minor arc is acute $\angle$?
(less than 90°)

SOMETIMES, IT CAN ALSO BE $90^\circ < x < 180^\circ$

(49) sum of measures of central $\angle$ s depend on the radius? NEVER Always 360° for any $\odot$

(50) semi $\odot$ of $\cong \odot$ are $\cong$? ALWAYS

(52)



l of arc from 12 to 2?

$$\Rightarrow \frac{2}{12} = \frac{1}{6} = \frac{\text{part of}}{\text{total circumference}}$$

$$d = 14t \quad C = \pi d = 3.14t$$

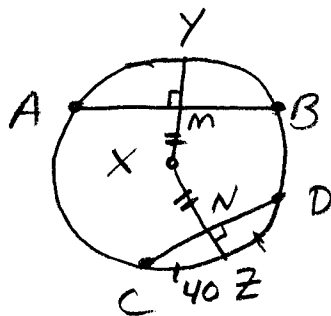
$$\therefore \frac{1}{6} = \frac{x}{3.14}$$

$$6x = 3.14$$

$$x = \frac{3.14}{6} \approx \boxed{.525t}$$

$$\begin{aligned} &.525t \cdot \frac{12 \text{ in}}{t} \\ &\approx 6.3 \text{ in} \end{aligned}$$

GIVEN:



⊙ X

$$AB = 30$$

$$CD = 30$$

$$m\widehat{CZ} = 40$$

$$(11) \ AM = ? \quad AM = \frac{AB}{2} = \frac{30}{2} = \boxed{15 = AM}$$

$$(13) \ CN = ? \quad CN = \frac{CD}{2} = \frac{30}{2} = \boxed{15 = CN}$$

$$(15) \ m\widehat{DZ} = ? \quad \widehat{DZ} \cong \widehat{CZ} \therefore \boxed{m\widehat{DZ} = 40}$$

$$(17) \ m\widehat{AB} = ? \quad \widehat{AB} = \widehat{AC} = 2(\widehat{CZ}) = 2(40) = \boxed{80}$$

$m\widehat{AB}$

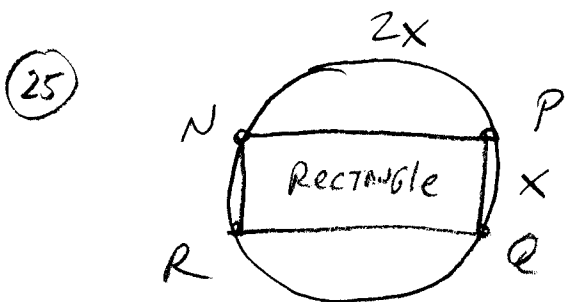
Measure of each Arc of circle circumscribed:

$$(23) \text{ regular octagon}$$

$$\Rightarrow \frac{360}{8} = \boxed{45^\circ \text{ each}}$$

$$(24) \text{ square}$$

$$\Rightarrow \frac{360}{4} = \boxed{90^\circ \text{ each}}$$



$$2x + x + 2x + x = 360^\circ$$

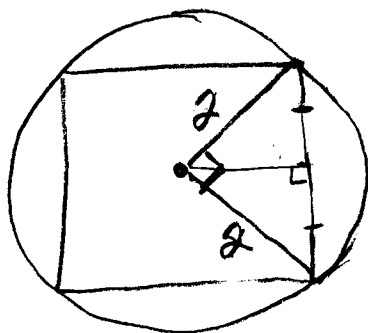
$$6x = 360^\circ$$

$$x = 60^\circ$$

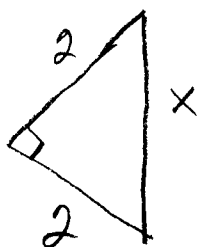
$$\therefore \boxed{\begin{array}{l} 2 \angle \text{S AT } 60^\circ \\ 2 \angle \text{S AT } 120^\circ \end{array}}$$

39

4 in dia



$$\frac{360^\circ}{4} = 90^\circ \Rightarrow \text{Each central } \angle \text{ is } 90^\circ$$



$$\therefore 2^2 + 2^2 = x^2$$

$$4 + 4 = x^2$$

$$8 = x^2$$

$$x = \sqrt{8} = \boxed{2\sqrt{2} \text{ in}}$$

EXACT

$$x \approx 2(1.414) \approx \boxed{2.828 \text{ in}}$$

APPROX