Tues.
1-24-12

Homework Review Pg 534 # 47-50, 52
Pg 540-541 # 11-17 odd, 23-25, 39

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(47) measure of major arc $> 180°$? ALWAYS

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

SOMETIMES, IT CAN ALSO BE $90° < x < 180°$

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

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

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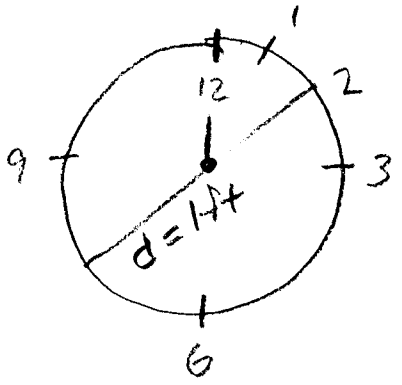
(52)



l of arc from 12 to 2?

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

$d = 1ft \qquad C = \pi d = 3.14\,ft$

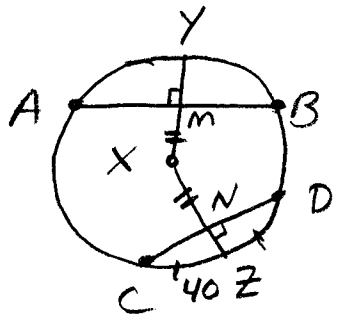
$\therefore \quad \frac{1}{6} = \frac{x}{3.14}$

$6x = 3.14$

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

$.525\,ft \cdot \frac{12\,in}{ft} \approx 6.3\,in$

GIVEN:



$\odot X$

$AB = 30$

$CD = 30$

$m\overset{\frown}{CZ} = 40$

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

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

Measure of each arc of circle circumscribed:

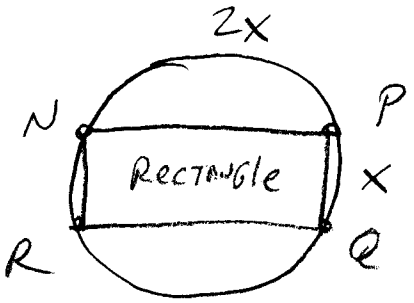
(23) regular octagon

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

(24) Square

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

(25)



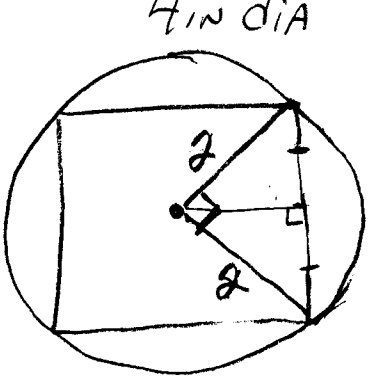
$2x + x + 2x + x = 360^\circ$

$6x = 360^\circ$

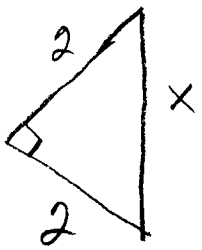
$x = 60^\circ$

$\therefore$ 2 $\angle$s AT 60°
2 $\angle$s AT 120°

(39)



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



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

$4 + 4 = x^2$

$8 = x^2$

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

EXACT

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

Approx