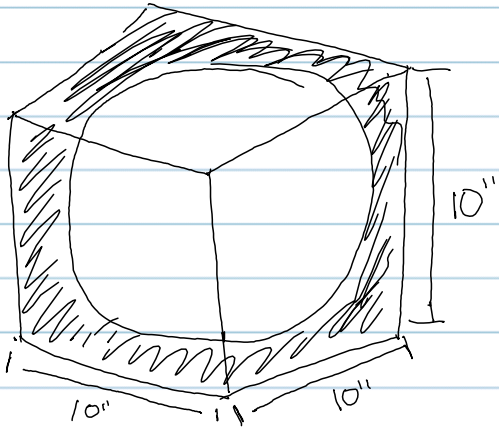


B

mz

z



Box fits snugly
basketball.

the

Find the empty space

Volume of a cube
~~Area of a cube~~

$V_c = \text{Volume of cube}$

$V_B = \text{Volume of BB}$

$$V = LWH$$

$$V = 10 \cdot 10 \cdot 10$$

$$V = 1000 \text{ cu.in.}$$

$V_c - V_B = \text{Volume of space.}$

V_{spr}

$$r = 5$$

$$\pi = 3.14$$

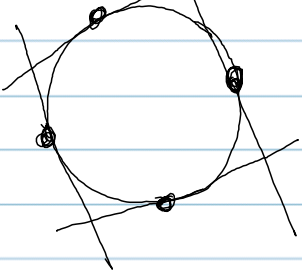
$$V = \frac{(4)(3.14)(125)}{3}$$

$$\begin{array}{r} 1000.0 \\ - 523.6 \\ \hline 476.6 \end{array}$$

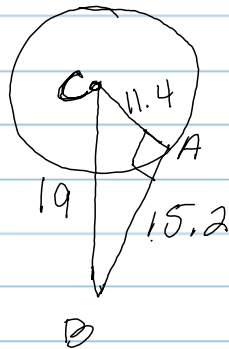
$$V = 523.6 \text{ cu.in.}$$

Volume of the space is 476.6 cu.in.

ents



$$A^2 + B^2 = C^2$$



prove its a
right triangle.

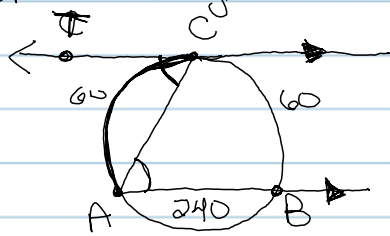


$$C^2 = (19)^2 = 11.4^2 + 15.2^2$$

$$361 = 361.$$

Alt Geometry

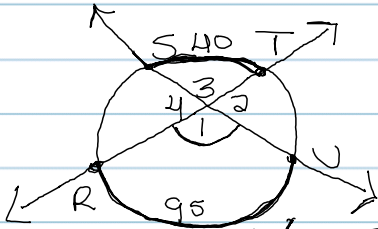
Tangent & Segment Measures



$$m\angle TCA = \frac{1}{2} m\widehat{CA}$$

$$\text{angle} = 30 \quad \text{chord} = 60$$

$$\text{angle} = 45 \quad \text{chord} = 90$$



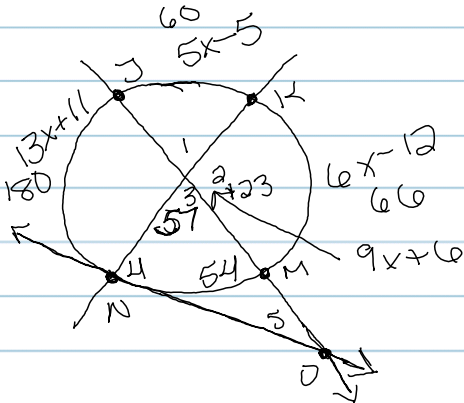
$$\widehat{RU} = 95$$

$$\widehat{UT} = 40$$

$$m\angle I = 67.5^\circ$$

Secants
intersect
INSIDE
THE
CIRCLE!

$$m\angle I = \frac{1}{2} (m\widehat{RU} + m\widehat{TV})$$



$$m\angle O = \frac{m\widehat{KM} + m\widehat{JN}}{2}$$

$$2 \cdot 9x + 6 = \frac{6x - 12 + 13x + 11}{2} \cdot 2$$

$$2(9x + 6) = 6x - 12 + 13x + 11$$

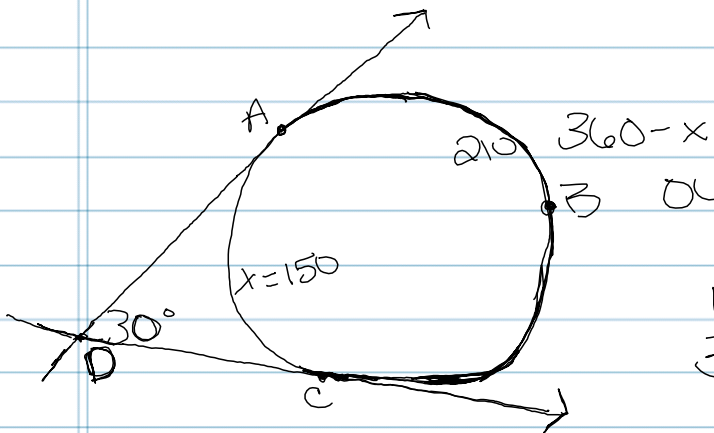
$$18x + 12 = 19x - 1$$

$$-18x \quad -18x$$

$$12 = x - 1$$

$$+1 \quad +1$$

$$13 = x$$



Outside of the
circle

$$m\angle ADC = \frac{1}{2} (m\widehat{ABC} - m\widehat{AC})$$

$$30 = \frac{360 - x - x}{2} = \frac{360 - 2x - 180 - x}{2}$$

$$30 = 180 - x$$

$$x = 150$$