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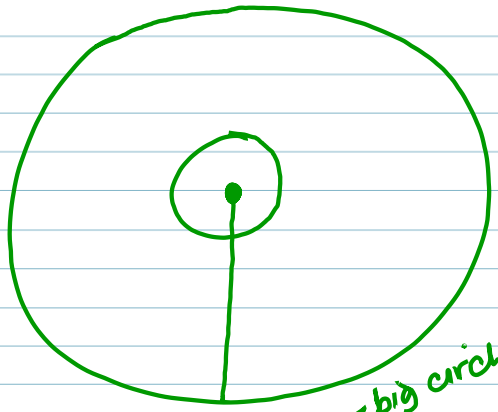
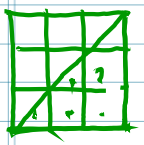
3/16

PI

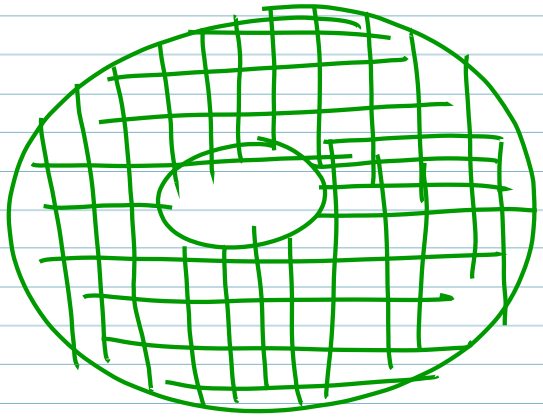


ruler - measure radius (square) (big circle) · π
measure radius (little circle) (sq.) · π



=4½

Area of big
Area of little
Area of "donut"

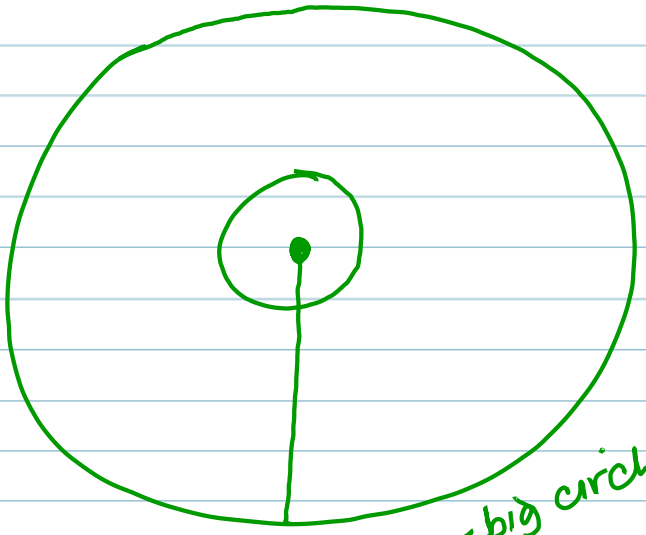


graph paper - count the "donut" section

livescribe

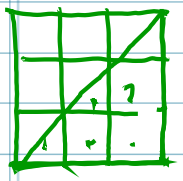
3/16

PI



big circle

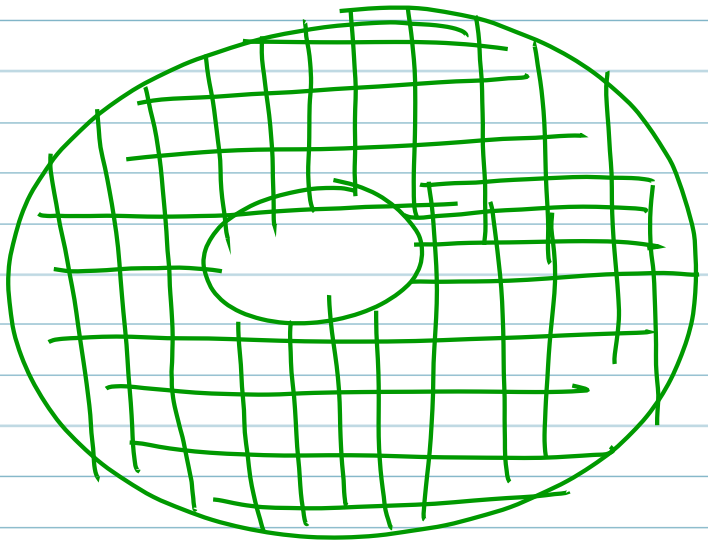
ruler - measure radius (square) · π
measure radius (little circle) (sq.) · π



=4½

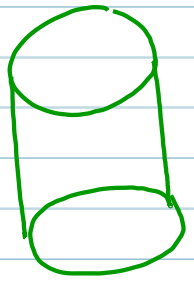
Area of big
Area of little

Area of "donut"



graph paper - count the "donut" section.

Cylinder - matching base + top circle
height



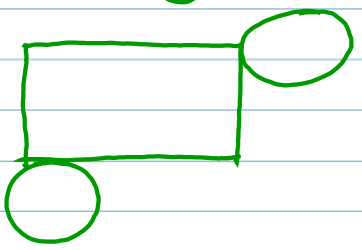
Volume = area of base
* height

LAYERS

area circle base

$r^2 \cdot \pi$

Area base * height.



NET (2D) representation of 3D solid.

Volume of soda can — — —

Area Circle: $r^2 \cdot \pi$

$A = (1.5)(1.5)$

$A = 2.25 \cdot 3.14$

$A = 7.07$ sq. inches

A(base) * height

7.07 * 6

Volume = 42.42 inches cubed

$1 \times 1 = 1$

$1 \times .5 = .5$

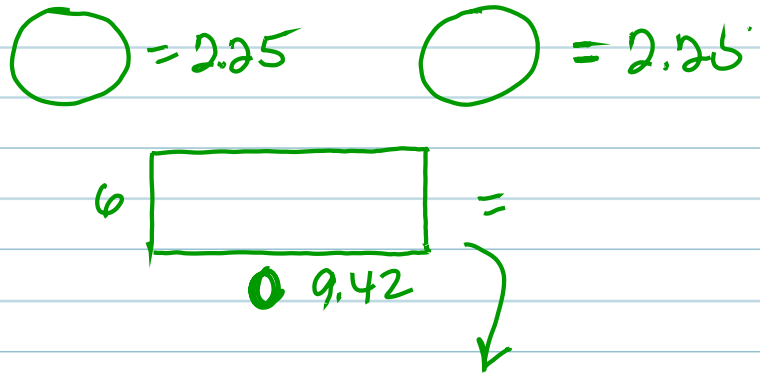
$1 \times .5 = .5$

$.5 \times .5 = .25$

*distributive property

$$\begin{array}{r} 1.5 \\ \times\ 1.5 \\ \hline 2.25 \end{array}$$

Surface Area =



$3 \times 3.14 = 9.42$

$9.42 \times 6 = 56.52$

2.25

2.25

61.02 sq. inches

Soda can =

Volume = $42.42\ in^3$

S.Area = $61.02\ in^2$