Good afternoon: Warm up in notebooks

If $\sin\Theta = \frac{o}{h}$ and $\cos\Theta = \frac{a}{h}$, then what is $\frac{\sin\Theta}{\cos\Theta}$?

$\frac{\sin\theta}{\cos\theta} = \frac{\frac{o}{h}}{\frac{a}{h}} \rightarrow \frac{o \div h}{a \div h} = \frac{o}{a} = \tan\theta$

Simplify your answer.

$\frac{o}{h} \cdot \frac{h}{a} = \frac{o \cdot h}{a \cdot h} = \frac{o}{a}$

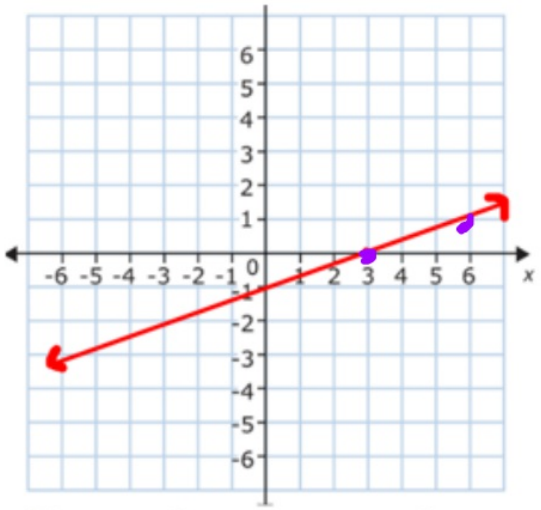
Reminder: can reassess in Friday DS

Next assessment: Monday 2/13

Assessments

Coordinate Geometry Review Answers

5.



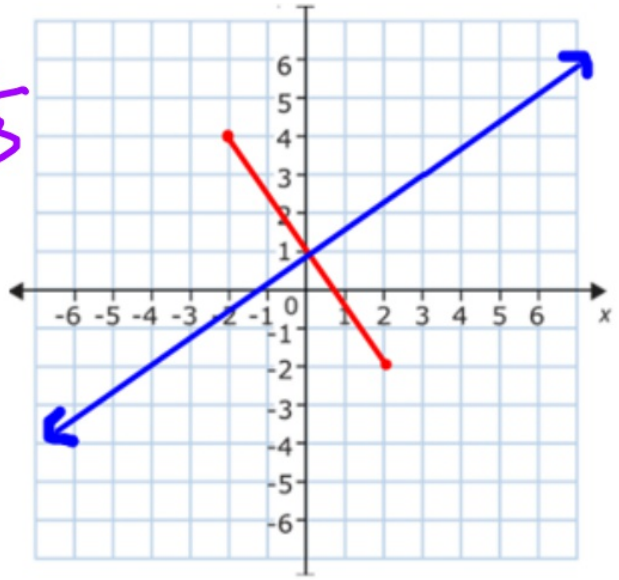
Remember: y=mx+b

m is the slope only when solved for y

$-\frac{1}{3}x = y + 2 \Rightarrow y = -\frac{1}{3}x + 2$

6.

$-\frac{3}{2} \perp \frac{2}{3}$

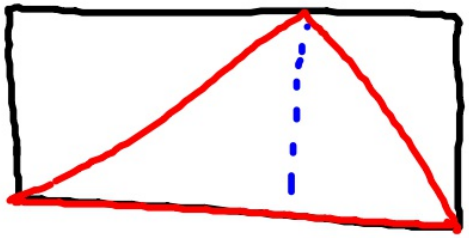


7. $y - 4 = -\frac{3}{2}(x + 1)$

$y - y_1 = m(x - x_1)$

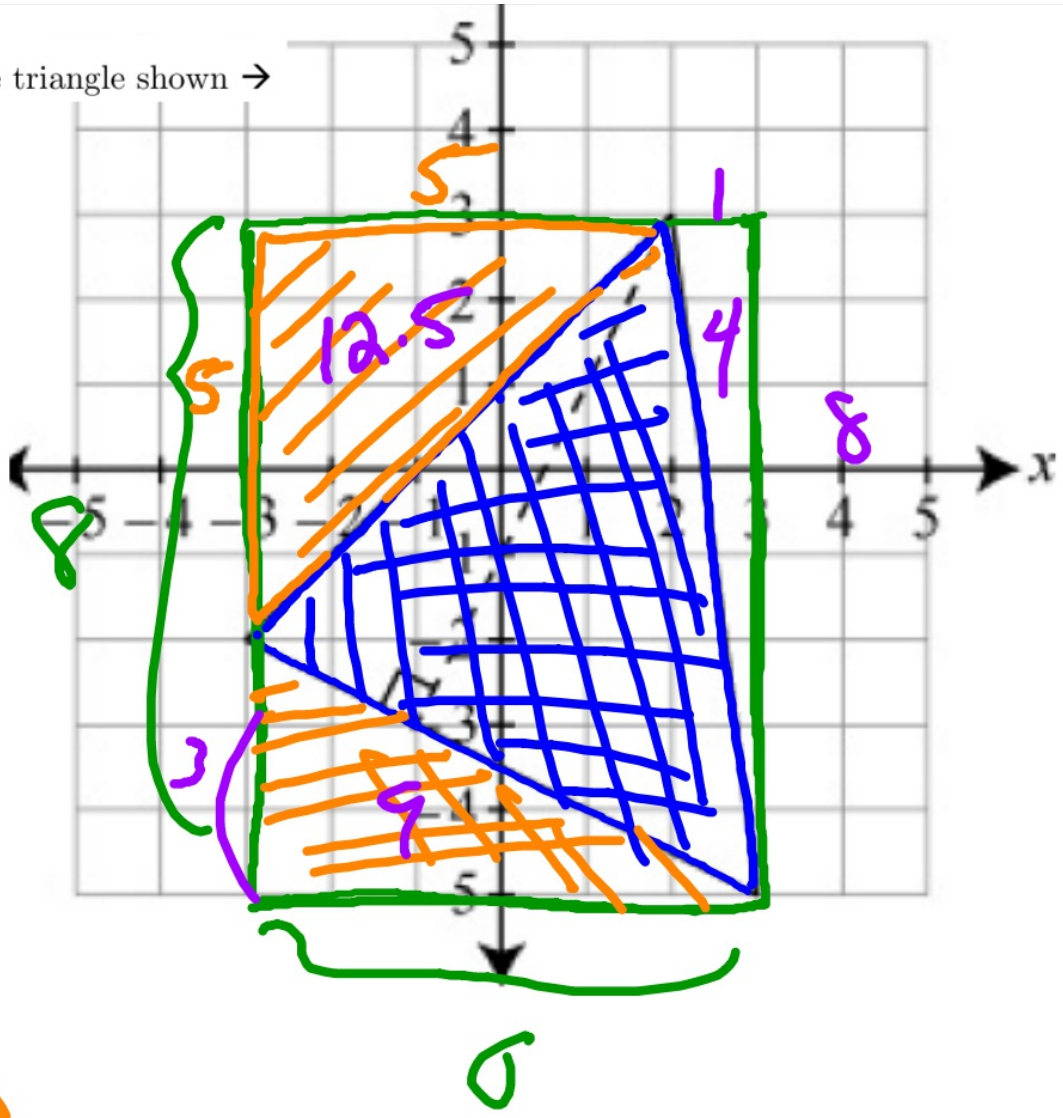
8. Rhombus but not a square

4. Find the area, to the nearest tenth, of the triangle shown →



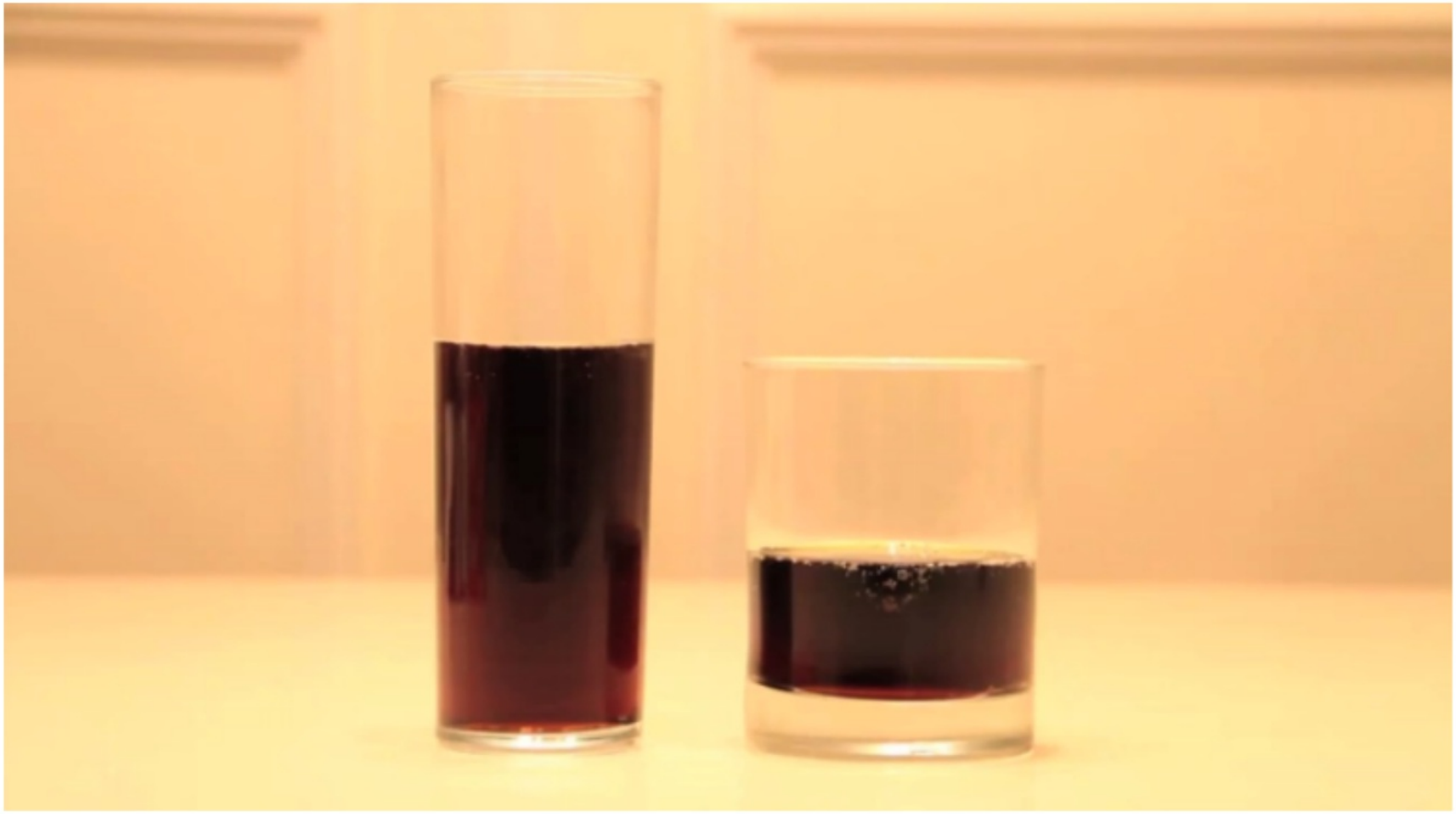
$A = \frac{1}{2} \cdot b \cdot h$

48
− 12.5
− 9
− 4
22.5

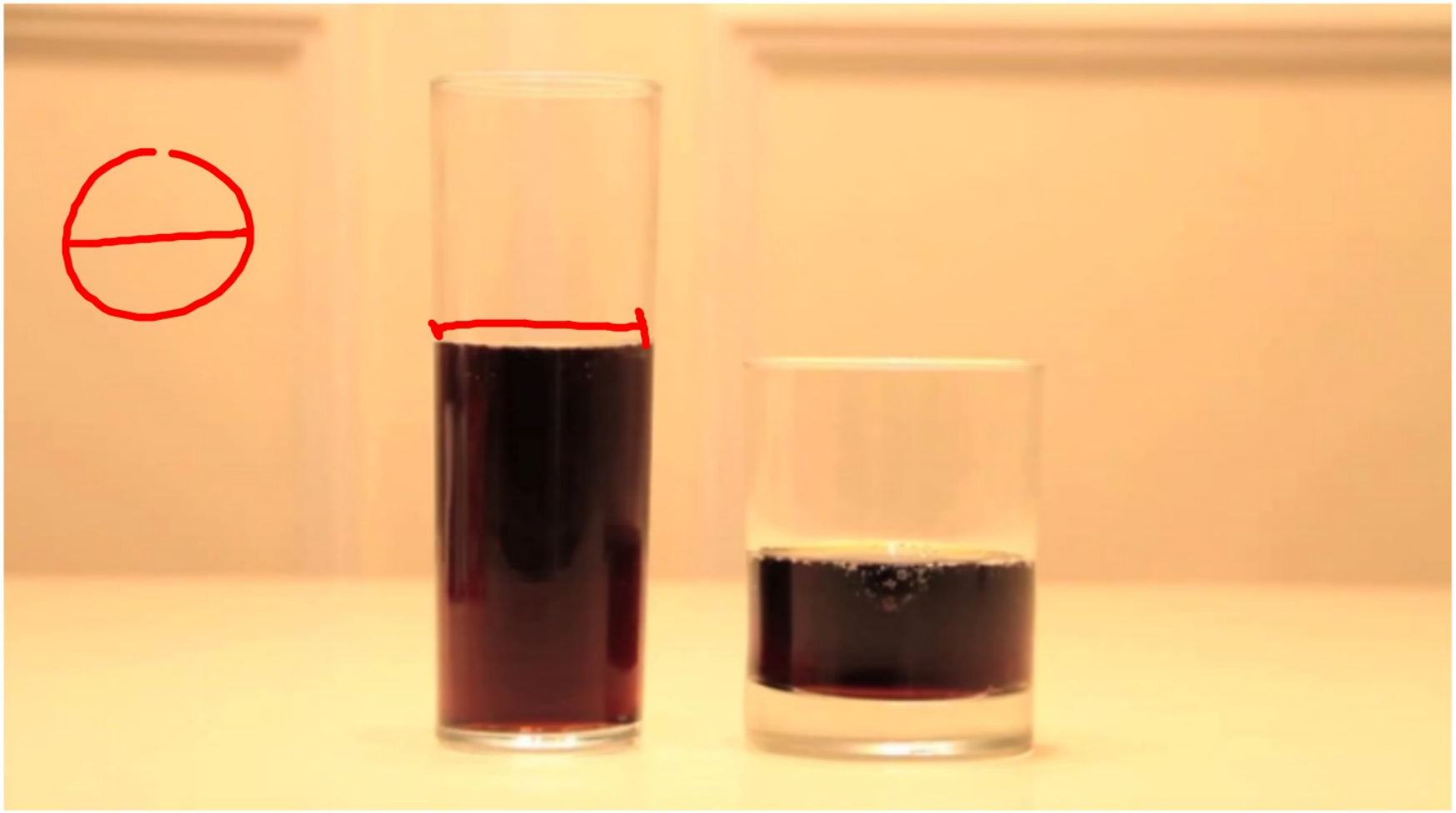


What's the first question that comes to your mind?

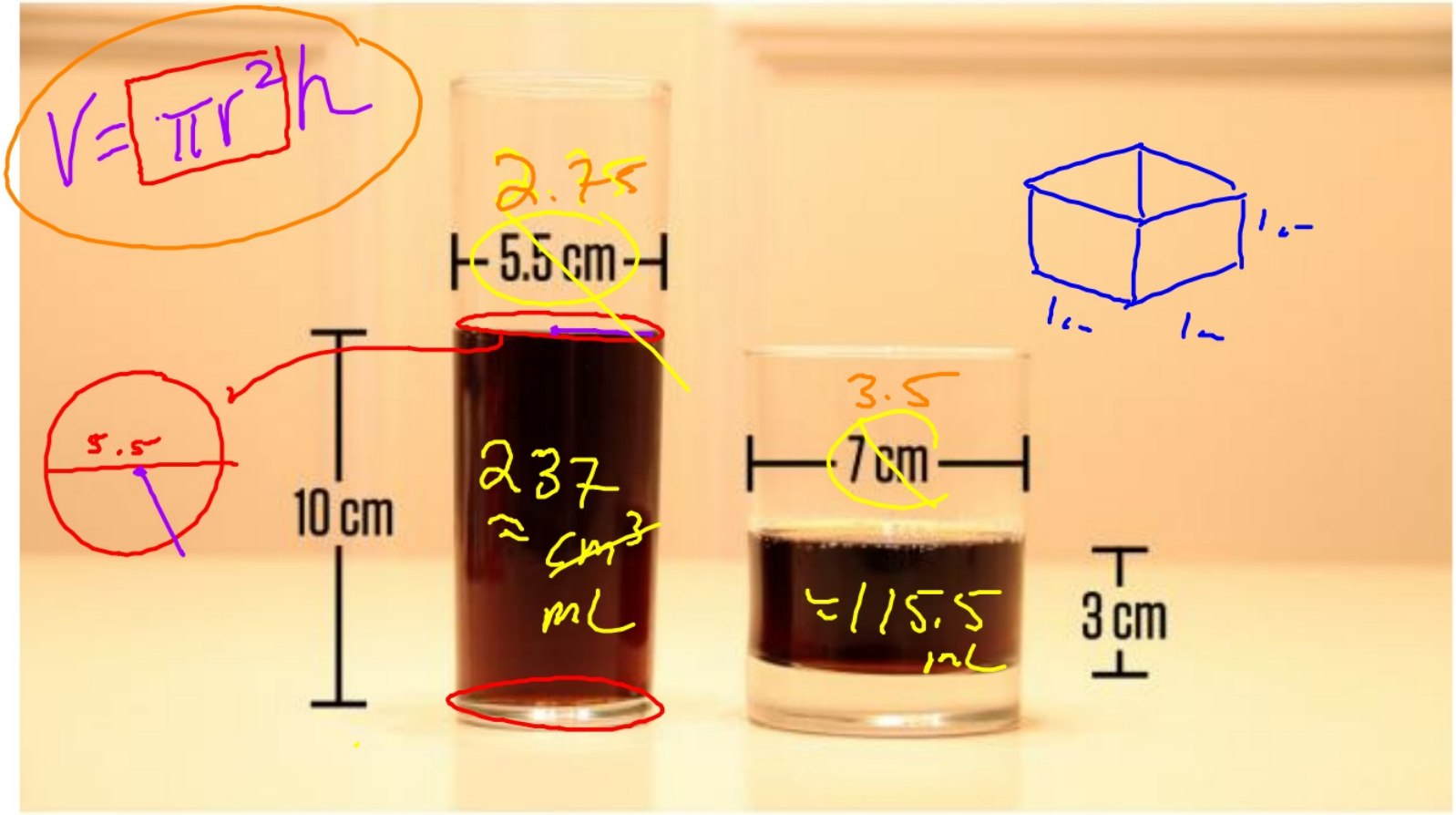
Write down your guess: which one has more soda



What information do you need?



Which one holds more soda?



xplaining Area/Volume Formulas GMD-1a: I can give an informal argument for the formulas for the rcumference of a circle, area of a circle, volume of a cylinder, pyramid, and cone.

Date					
Score					

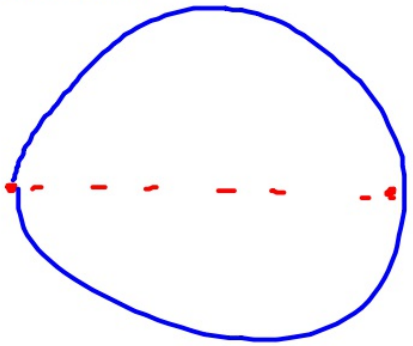
oordinate Geometry Review 1 GPE-B1: Given 4 coordinate pairs, I can prove/disprove that a shape is a

Pay close attention and take good notes today!!

Why is the circumference of a circle $2\pi r$?

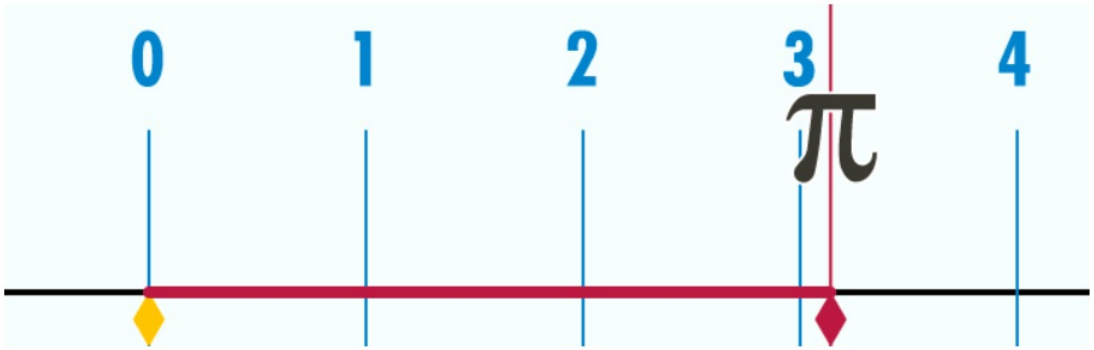
Why is the area of a circle πr^2 ?

NOTES

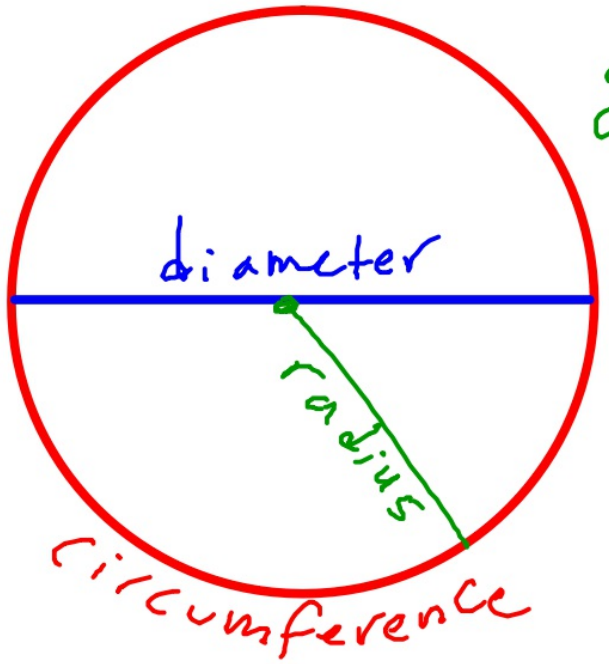


What is π?

$$\pi = \frac{\text{circumf.}}{\text{diameter}}$$



$$\pi = \frac{\text{circumference}}{\text{diameter}}$$

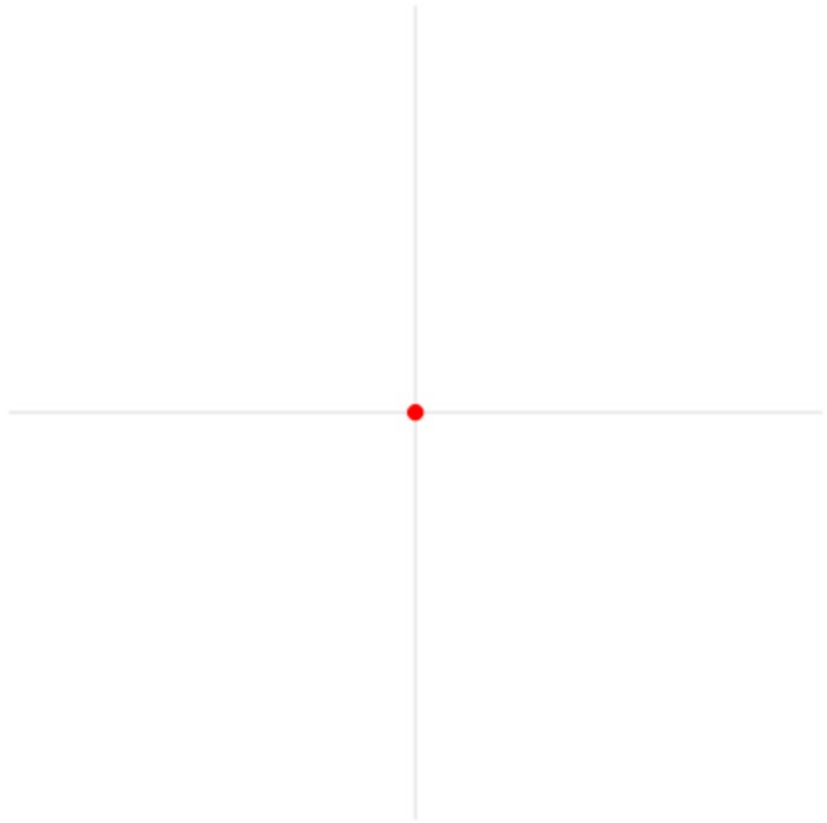


$2r = D$

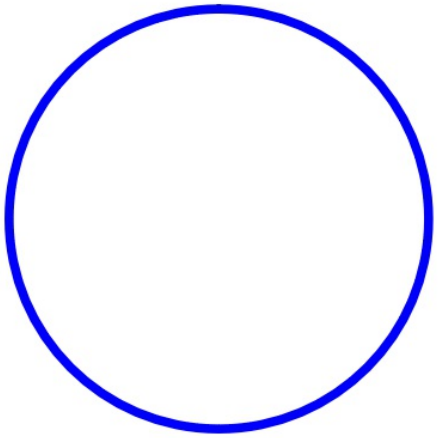
$$2r\left(\pi = \frac{C}{2r}\right)\cdot 2r$$

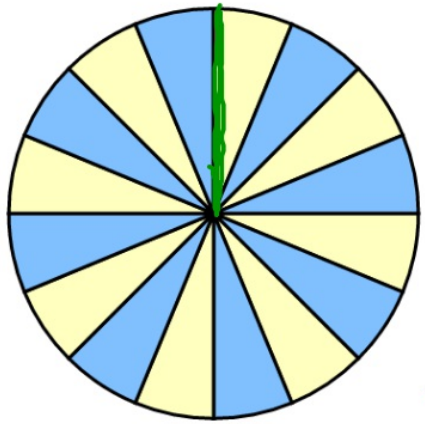
$$2r\pi = C$$

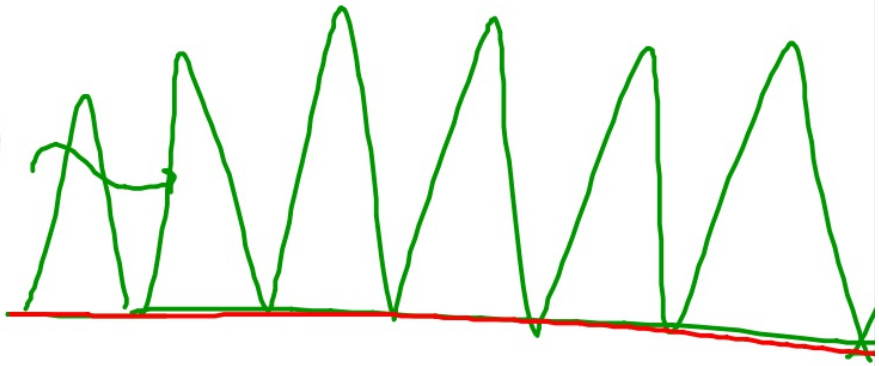
$$2\pi \cdot r = C$$



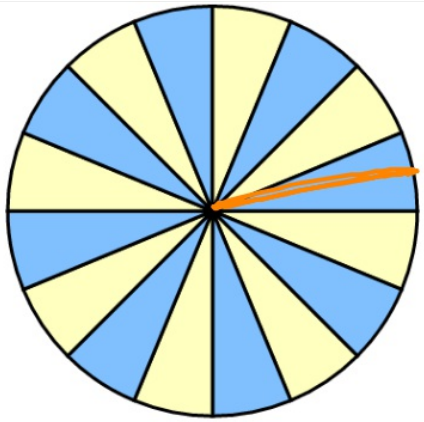
Okay...but area?? πr^2 ??







https://www.youtube.com/watch?v=lZa312pEcTw

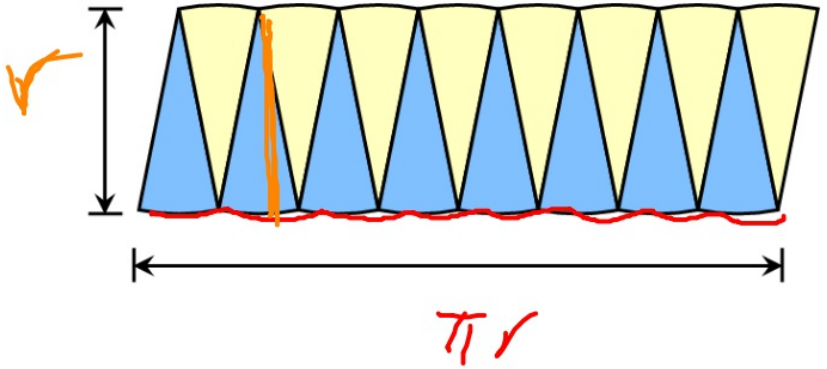


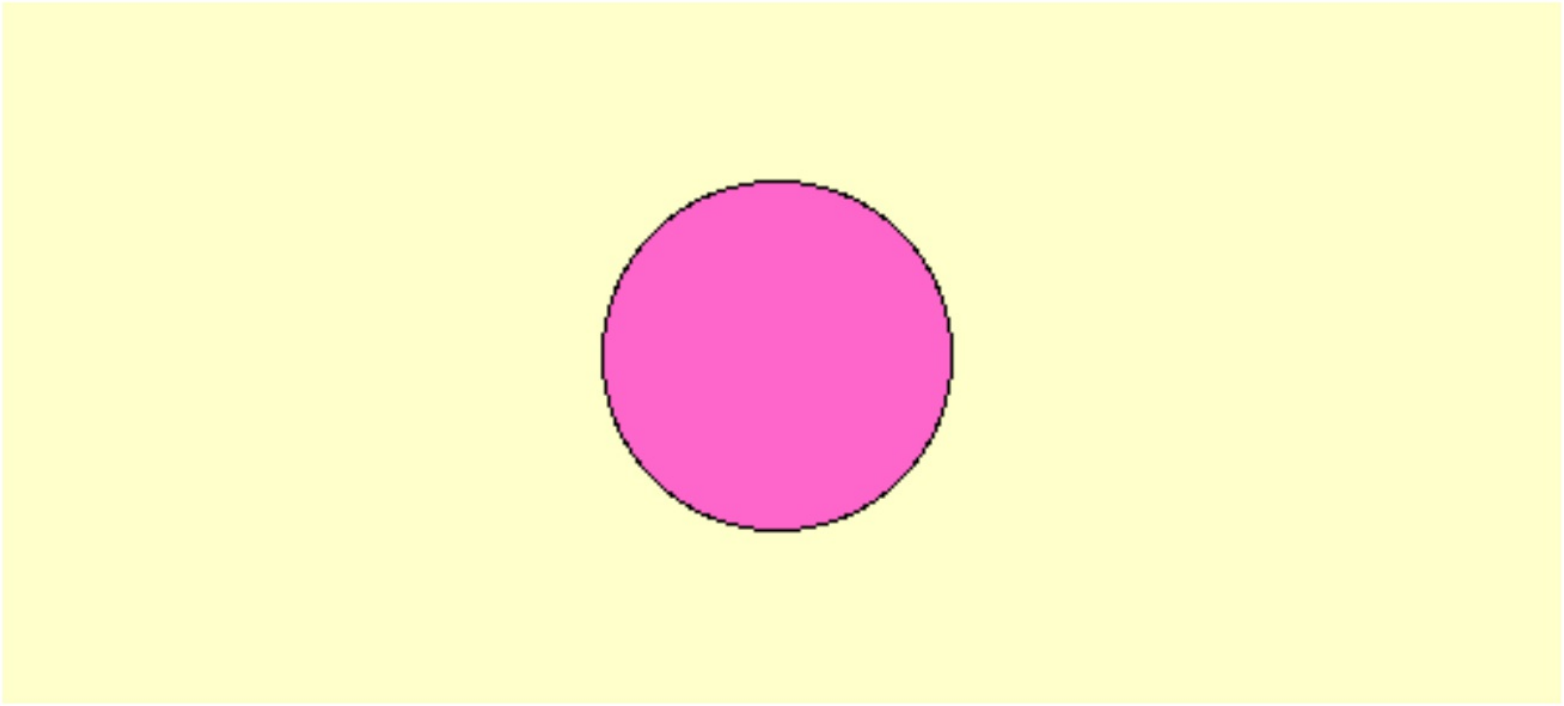
$A = B \cdot H = \pi r \cdot r$

$= \pi r^2$

$\frac{1}{2} \cdot 2\pi r$

$= \pi r$



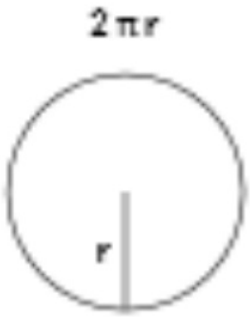


https://www.youtube.com/watch?v=YokKp3pwVFc

Another approach....

$\frac{1}{2} \cdot 2\pi r \cdot r$

πr^2



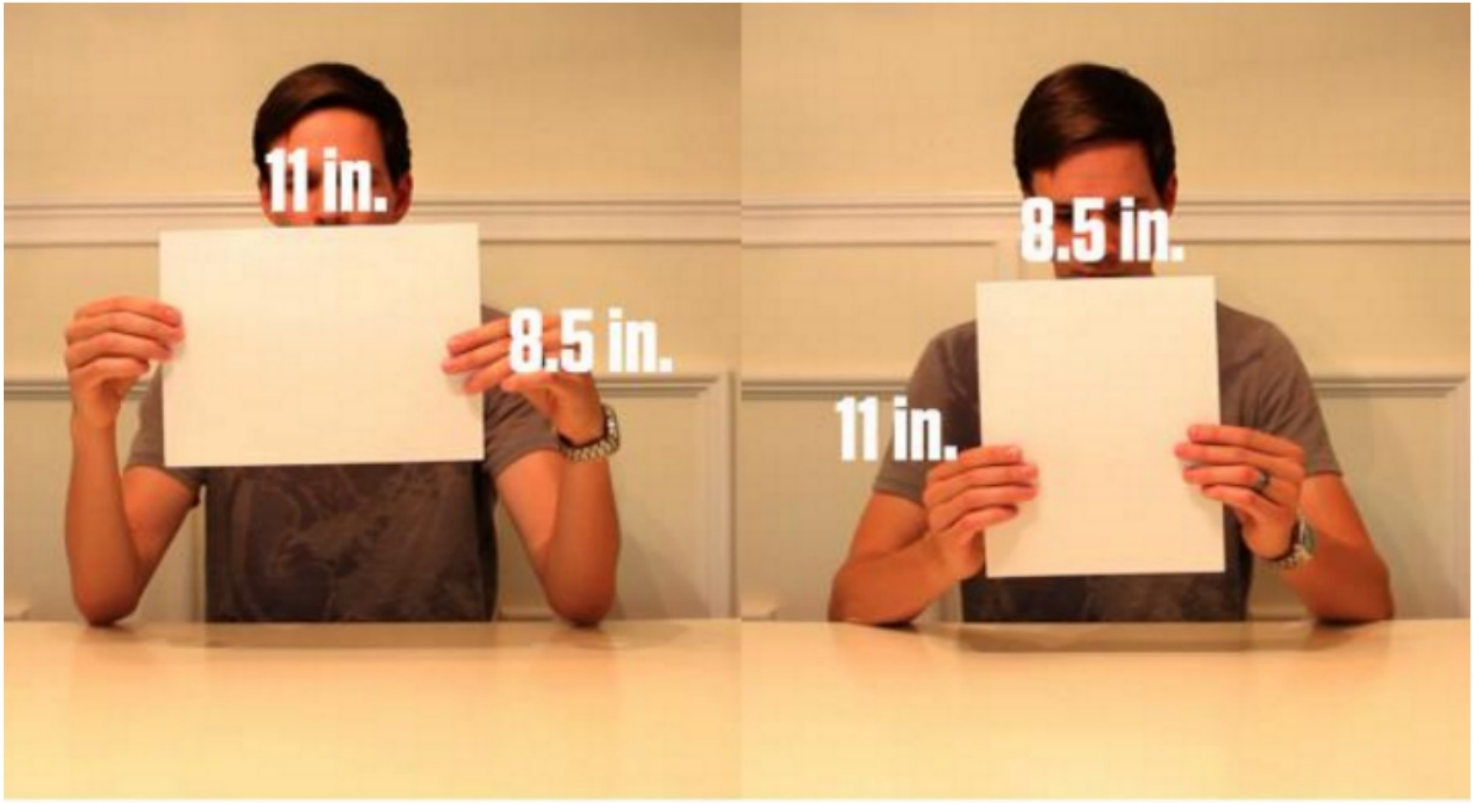
https://youtu.be/whYqhpc6S6g

Which one holds more popcorn? Write down your guess

Wide

Tall

Which tube holds more popcorn? $V = \pi r^2 \cdot h$



wide

tall

Homework:

p 475 #1-6, 11