Warmup

Created by Mr. Lischwe

$3/\left(\sqrt{1 \cdot 100 + 4 \cdot 10 + 4 \cdot 1}\right)$

This is week 10!

1) Pick one of the letters and give a reason why it does not belong.

E	H
F	C

2) Repeat for a different letter.

3) Repeat for a different letter.

4) Repeat for the letter you haven't done yet.

ALEKS

- I am giving you this week off for ALEKS.
- However, I will be showing you your ALEKS progress grade **tomorrow** for this 9 weeks. If you would like to improve it, you may do extra this week.
- ALEKS progress grades will lock on Sunday night at midnight.

Pythagorean Theorem Quizzes

- You must retake them by the end of the 9 weeks.
- I **WILL NOT** let you "finish it" on Monday. It would not be a good idea to start your retake at lunch on Friday. You probably won't finish.

Last week of the 9 weeks…

- The quiz we just got done is the LAST quiz for this 9 weeks.
- **How can I still improve my grade???**
  - Transformations Retake or Pythagorean Theorem Retake
  - Turn in your missing midterm corrections (I will still accept them because review is SO important)
  - Turn in missing homework/ALEKS (can help a little, but the other things will help much more)

Pi Day is coming up!!!

- On Pi Day, we will be having a contest to see who can recite the most digits of pi.
- There will be prizes involved! (More than just a piece of candy)

Table of Contents (2nd Semester)

Review: Circles

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Objective:

- Find the area & circumference of circles
- Solve real-world problems involving circles

Can anyone tell me…

- The **mathematical** definition of a circle?

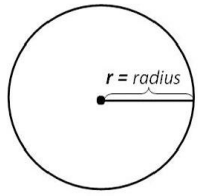
True or False???

Say whether each statement is true or false. If it is false, draw a counterexample. (A picture that disproves the statement)

1) All rectangles with a length of 5 units are congruent.
2) All squares with a length of 5 units are congruent.
3) All triangles with a height of 5 units are congruent.
4) All circles with a radius of 5 units are congruent.

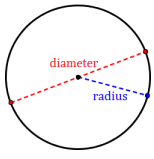
Circles

- A circle is **completely** defined by the length of its radius.



Circles

- The diameter is twice the length of the radius.



Circles

- The diameter of a circle will **ALWAYS** fit approximately 3.14 times around the outside of the circle.
- So, the diameter times pi equals the circumference.
- **Circumference of a Circle:**
  - $C = \pi d$ or $C = 2\pi r$

Area of a circle

- https://www.youtube.com/watch?v=lZa312pEcTw
- **Area of a Circle:**
  - $A = \pi r^2$