

Mr. Barody's Web Page



you are here > [Class Notes – Chapter 11 – Lesson 11-1](#)

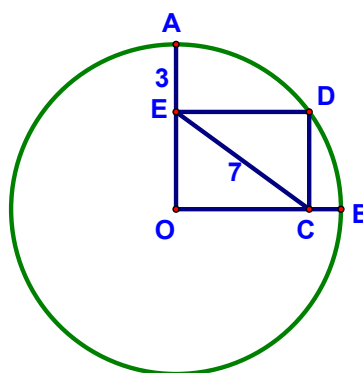
Understanding Area - Lesson 11-1

Today we started covering area....

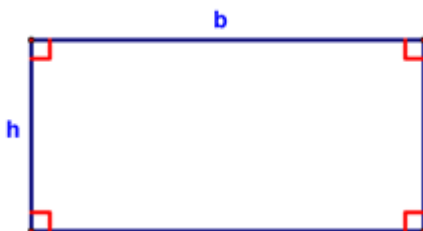
Here's the warmup!

COED is a rectangle.

Find the length of the radius of the circle.

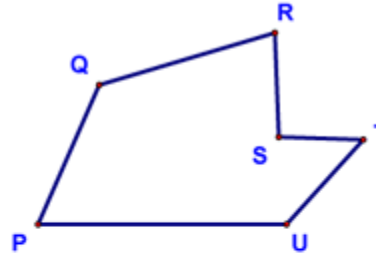
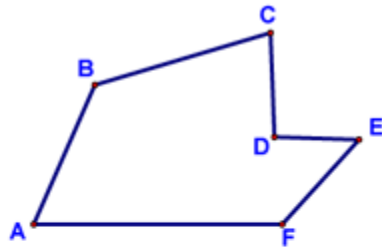


We'll start by remembering how to find the area of a rectangle:



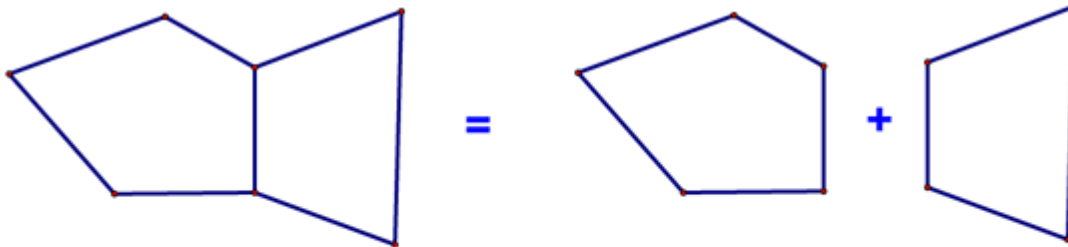
Postulate: (Rectangle Area Postulate) - The area of a rectangle is given by the formula $A=bh$ where A is the area, b is the length of the base, and h is the height of the rectangle.

Here are a couple of things that should be pretty straight forward to understand:



Postulate: Every region has an area.

Postulate: If two closed figures are congruent, then their areas are equal (e.g., In the diagram above, if $ABCDEF = PQRSTU$, then their areas are equal).



Postulate: If two closed regions intersect only along a common boundary, the area of their union is equal to the sum of their individual areas.

Let's finish by doing the following example:

Find the area of the figure below:

