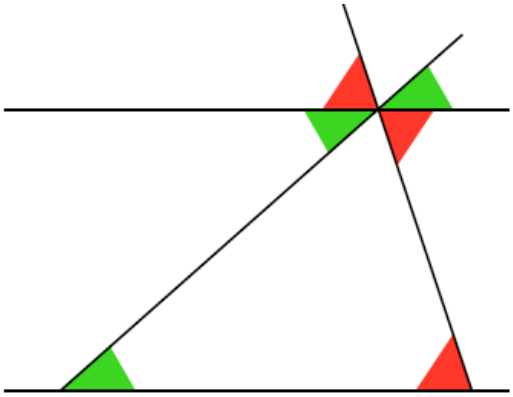
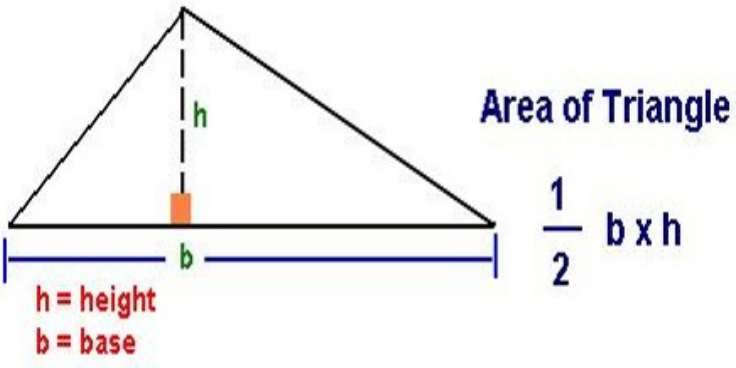
HOMEWORK 16,
February 2, 2020

1. Using a ruller draw a picture similar to the one below, name the angles and prove that sum of the angles in a triangle is 180°.

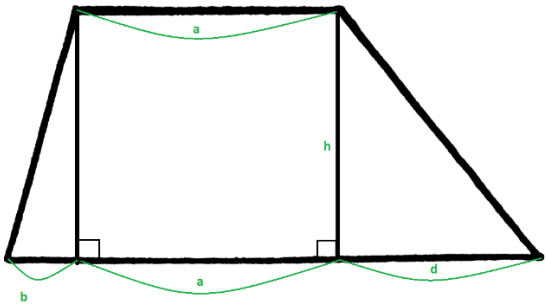


2. There are many ways to prove/show the formula for area of a triangle. All of them require additional constructions. We did this in class. Show in any way the formula for area of a triangle.



3. Using compass construct a circle with radius 4cm. Put any point K on the circle and construct another circle with the same radius 4 cm. In 2points of where circles intersect construct two more circles, and so forth. At the end, if you connect the intersection points you should get a perfect hexagon!

4. Find the area of the trapezoid, based on your knowledge of the area of a triangle. It will help if you make some extra constructions. Draw your solution in your homework, not on this page.



5. There are many ways to show that area of a parallelogram is base x height. A=b x h Please use any additional constructions and show that this is indeed the case.