

Due April 13

Name

For this homework set you are allowed to work with other members of either of the geometry classes. However, must cite everyone with whom you have discussed your problem.

In addition, you may **NOT** consult with anyone (except me) when you write your paper explaining your problem(s).

“The difference between genius and stupidity is that genius has its limits.” – Anonymous

“Obvious” is the most dangerous word in mathematics.” – Eric Temple Bell

Problems

Remember that you may use any previous problem as part of the justification for your problem(s).

1. **(Letani)** Do exercises 5 and 6 of Chapter 5.
2. **(Lindsey)** Do exercise 7 of Chapter 5.
3. **(Luke)** Do exercise 9 of Chapter 5.
4. **(Amy)** Do exercise 10 of Chapter 5.
5. **(Noa)** Do exercise 11 of Chapter 5.
6. **(Everyone)** Note that all of the exercises referenced in this problem are in **Euclidean** geometry.
 - (a) Understand what exercise 18 and 20 are telling you about similar triangles in Euclidean geometry.
 - (b) Be able to prove exercises 24, 25, and 26 of Chapter 5.