

Due April 5

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).

“Mathematicians do not study objects, but relations among objects; they are indifferent to the replacement of objects by others as long as relations do not change. Matter is not important, only form interests them.”
— Henri Poincaré

“Simple solutions seldom are. It takes a very unusual mind to undertake analysis of the obvious.” — Alfred North Whitehead

Problems

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

1. **(Alec, Kristen)** Do exercise 17 of Chapter 4.
2. **(Jana, Jane)** Do exercise 18 of Chapter 4.
3. **(Eric, Chelsea)** Do exercise 23 of Chapter 4.
4. **(Emily, Sarah)** Do exercise 28 of Chapter 4. Use this exercise to deduce that every point on an open chord of a circle is interior to the circle.
5. **(Everyone: Discussion – not to be turned in)** Do exercise 27 of Chapter 4.
6. **(Everyone: Extra Credit)** Electronically submit all of your previous homework (you may exclude HW 02).

No future homework will receive credit until all of your homework (except for HW 02) is turned in electronically.