

Not to be turned in

Name

For this homework set you are allowed to work with other members of either of the geometry classes. However, you 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).

“Poetry is a subject as precise as geometry.” -Gustave Flaubert, novelist (1821-80)

“A proof tells us where to concentrate our doubts.” — Morris Kline

Problems

- (**Everyone**: Not turned in for a grade) Fill in and be able to explain all claims in the Projective Plane Worksheet.
- (**Everyone**: Not turned in for a grade) Prove the last claim on the Projective Plane Worksheet. Specifically, state and prove the proposition in the projective plane \mathbf{P} that translates into the “Strong Incident Axiom 2” holding in the dual plane \mathbf{P}' .

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

1. (**Everyone**) Do Exercise 7 of Chapter 2.
2. (**Everyone**) Do Exercise 10.(b) of Chapter 2.
3. (**Everyone**) Do Exercise 11 of Chapter 2.