

Due March 25

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Name

Be sure to follow the “Writing Guidelines” handout when presenting your solutions.

**NOTE:** 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.

*“We used to think that if we knew one, we knew two, because one and one are two. We are finding that we must learn a great deal more about ‘and.’”* (Sir Arthur Eddington)

### Problems

Everyone needs to understand how to do all of the following proofs.

There will be a “brainstorm session” on Monday and each group will have 10 minutes to present on Tuesday.

- (Roy, Monica, Matt F, Sarah)

Proposition 4.1 (SAA Congruence Criterion)

- (Mark, Hannah, Samantha, Greg)

Proposition 4.2.(Hypotenuse-Leg Criterion)

- (Casey, Matt E, Allison )

Proposition 4.3 (Midpoints)

- (Kelly, David, Dawa, Keith)

Proposition 4.4 (Bisectors)

- (Bryan)

Proposition 4.5 (Greater Side lies opposite Greater Angle)