Advanced Geometry

Chapter 3 Pre-Read Guide---Part I

(You’ll receive another guide for sections 3.4 through 3.8)

Section 3.1 “What are congruent figures”

* Explain what it means for triangles to be congruent
* Write the definition of congruent triangles (note: what does that  symbol mean?)
* Define congruent polygons
* Write the reflexive property
* Re-copy (and really think through!) Problem 1 on pg 113
* Re-copy (and really think through!) Problem 2 on pg 114

Section 3.2 “Three ways to prove triangles congruent”

* Explain, in your own words, what included angles and sides are.
* Copy the SSS postulate
* Copy the SAS postulate
* Copy the ASA postule
* Are these the *only* three congruence shortcuts?
* Make sure that if I ask you tomorrow what the three shortcuts in this section are, you can tell me! You don’t have to be able to recite the postule, just tell me the three (SSS, SAS, and ASA.)
* In addition to reading through all of the Sample Problems, re-copy (and really think through!) Problem 6 on pg 119.
* Re-copy (and really think through!) Problem 7 on pg 119

Section 3.3 “CPCTC and Circles”

* What does “CPCTC” stand for? Make sure you understand that when we use CPCTC, we prove the triangles congruent *first* using SAS, SSS, or ASA, and then we are allowed to make the conclusion that the other corresponding parts are congruent as well!
* How would you name a circle that had a center at point B?
* What is the plural for the world “radius”?
* Write the formula for the formula for the area and circumference of a circle
* Copy Theorem 19 on pg 126
* Re-copy (and really think through!) Problem 1 on pg 126
* Re-copy (and really think through!) Problem 2 on pg 126