Advanced Geometry

Ch 5 Pre-read guide- Part I

Section 5.1 Indirect Proof

* Re-copy the table on pg 212 about the procedure for using an Indirect Proof
* Re-copy (and really think through!) Problem 1 on pg 212
* Re-copy (and really think through!) Problem 2 on pg 212

Section 5.2 Proving that Lines are Parallel

* Re-copy the sketch on pg 216, making sure you understand how the angles (adjacent interior and remote interior) relate to the exterior angle
* Re-copy Thm 30 on pg 216
* Flip to pg 193. Recopy the diagram under the heading **Angle Pairs Formed By Transversals** and make sure you understand alternate interior angles, alternate exterior angles, and corresponding angles. (Not sure what a “transversal” is? Check out the definition on pg 192.)
* Read through Theorems 31, 32, and 33. Recopy the *short* form for each.
* Re-copy Thems 34, 35, and 36

Section 5.3 Congruent Angles Associated with Parallel Lines

* Re-copy the Postulate on pg 224. Note that we’ll refer to this as the “Parallel Postulate” when we use it in proofs.
* Read through Thms 37-44. You just need to re-copy 38, 43, and 44
* Re-copy the summary found at the bottom of pg 227

5.4 Four-Sided Polygons

* Define convex polygons and diagonals of polygons
* Re-copy the 8 definitions of pg 236, including diagrams.

5.5 Properties of Quadrilaterals

For the next 6, recopy only the properties. You do not have to include the diagram and specific examples unless you want to, but make sure you look at them carefully as you read!

* Re-copy the properties of parallelograms
* Re-copy the properties of Rectangles
* Re-copy the properties of Kites
* Re-copy the properties of Rhombuses
* Re-copy the properties of Squares
* Re-copy the properties of Isosceles Trapezoids
* Re-copy (and really think through!) Problem 3 on pg 244