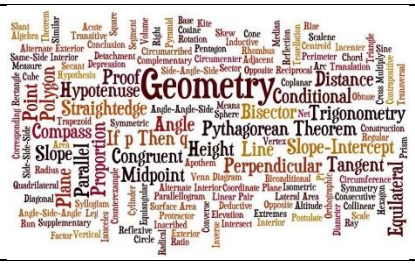

CHAPTER 2:

INTRODUCTION TO PROOF

Cornell Notes/Summary Sheet

Name: _____

Period: _____

Lesson 2.1 – Big Ideas	**Your Notes**
• Inductive vs. deductive reasoning • Counterexamples • Propositional form • Conditional statements (hypothesis & conclusion) • Truth value • Truth table	
Lesson 2.2 – Big Ideas	**Your Notes**
• Supplementary angles • Complementary angles • Adjacent angles • Linear pair • Vertical angles	
Lesson 2.2 – Postulates	
• Linear Pair Postulate	
• Segment Addition Postulate	
• Angle Addition Postulate	
Lesson 2.3 – Properties	
• Addition Property of Equality	If $a, b, \& c$ are real numbers and $a = b$, then $a + c = b + c$.
• Subtraction Property of Equality	If $a, b, \& c$ are real numbers and $a = b$, then $a - c = b - c$.
• Reflexive Property	If a is a real number, then $a = a$.
• Substitution Property	If a & b are real numbers and $a = b$, then a can be substituted for b.
• Transitive Property	If $a, b, \& c$ are real numbers and $a = b$ and $b = c$, then $a = c$.

Lesson 2.3 – Theorems	
• Right Angle Congruence Theorem	
• Congruent Supplements Theorem	
• Congruent Complements Theorem	
• Vertical Angle Theorem	
Lesson 2.4 – Big Ideas • Corresponding angles • Alternate interior angles • Alternate exterior angles • Same-side interior angles • Same-side exterior angles	**Your Notes**
Lesson 2.4 – Theorems	***Complete each theorem…***
• Corresponding Angle Postulate	If two parallel lines are intersected by a transversal, then…
• Alternate Interior Angle Theorem	If two parallel lines are intersected by a transversal, then…
• Alternate Exterior Angle Theorem	If two parallel lines are intersected by a transversal, then…
• Same-Side Interior Angle Theorem	If two parallel lines are intersected by a transversal, then…
• Same-Side Exterior Angle Theorem	If two parallel lines are intersected by a transversal, then…
Lesson 2.5 – Converses	***Complete each theorem…***
• Corresponding Angle Converse Postulate	If two lines intersected by a transversal form…
• Alternate Interior Angle Converse Theorem	If two lines intersected by a transversal form…
• Alternate Exterior Angle Converse Theorem	If two lines intersected by a transversal form…
• Same-Side Interior Angle Converse Theorem	If two lines intersected by a transversal form…
• Same-Side Exterior Angle Converse Theorem	If two lines intersected by a transversal form…