EVIDENCE GUIDED NOTES

Word	Definition & Meaning
Proof	
Justify	
Geometric proof	
Types of proofs	

Reasons

Definition	Properties
• Definition of Angle Bisector • Definition of Complementary Angles • Definition of Congruent Angles • Definition of Congruent Segments • Definition of Linear Pair • Definition of Midpoint • Definition of Right Angles • Definition of Segment Bisector • Definition of Supplementary Angles • Definition of Vertical Angles	• Addition Property of Equality • Distributive Property • Division Property of Equality • Multiplication Property of Equality • Reflexive Property • Substitution Property of Equality • Subtraction Property of Equality • Symmetric Property • Transitive Property
Postulates	**Theorems**
• Angle Addition Postulate • Linear Pair Postulate • Segment Addition Postulate	• Alternate Exterior Angles Theorem • Alternate Interior Angles Theorem • Angle Bisector Theorem • Consecutive Interior Angles Theorem • Corresponding Angles Theorem • Midpoint Theorem • Vertical Angles Theorem

Algebraic Proof

Given: $2x + 5 = 20 - 3x$

Prove: $x = 3$

Statement	Reason
1. $2x + 5 = 20 - 3x$	1.
2.	2.
3.	3.
4. $x = 3$	4.

Creating a Proof

Given: $AC = AB + AB$

Prove: $AB = BC$

A   B   C

Statement	Reason
1.	1.
2.	2.
3.	3.
4.	4.

Paragraph Proof

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Completing a Proof

Given: $m\angle KMN = 28°$

Prove: $m\angle JMN = 90°$
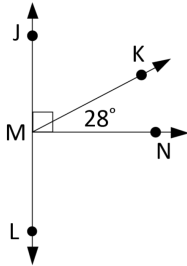
Statement	Reason
1.	1.
2. $\angle JMK$ and $\angle KMN$ are complementary angles	2. Given
3. $\angle JMK + \angle KMN = \angle JMN$	3.
4. $\angle JMK + \angle KMN = 90°$	4. Definition of Complementary Angles
5.	5.