

## EVIDENCE

Term	Definition/Meaning
<b>Proof</b>	
<b>Justify</b>	
<b>Geometric proof</b>	
<b>Types of proofs</b>	

## Reasons

Definition	Properties
<ul style="list-style-type: none"> <li>• Definition of Angle Bisector</li> <li>• Definition of Complementary Angles</li> <li>• Definition of Congruent Angles</li> <li>• Definition of Congruent Segments</li> <li>• Definition of Linear Pair</li> <li>• Definition of Midpoint</li> <li>• Definition of Right Angles</li> <li>• Definition of Segment Bisector</li> <li>• Definition of Supplementary Angles</li> <li>• Definition of Vertical Angles</li> </ul>	<ul style="list-style-type: none"> <li>• Addition Property of Equality</li> <li>• Distributive Property</li> <li>• Division Property of Equality</li> <li>• Multiplication Property of Equality</li> <li>• Reflexive Property</li> <li>• Substitution Property of Equality</li> <li>• Subtraction Property of Equality</li> <li>• Symmetric Property</li> <li>• Transitive Property</li> </ul>
Postulates	Theorems
<ul style="list-style-type: none"> <li>• Angle Addition Postulate</li> <li>• Linear Pair Postulate</li> <li>• Segment Addition Postulate</li> </ul>	<ul style="list-style-type: none"> <li>• Alternate Exterior Angles Theorem</li> <li>• Alternate Interior Angles Theorem</li> <li>• Angle Bisector Theorem</li> <li>• Consecutive Interior Angles Theorem</li> <li>• Corresponding Angles Theorem</li> <li>• Midpoint Theorem</li> <li>• Vertical Angles Theorem</li> </ul>

### 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:  $AB = BC$

### Paragraph Proof

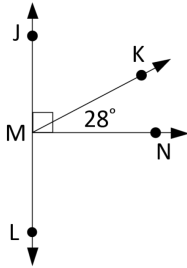
Statement	Reason
1.	1.
2.	2.
3.	3.
4.	4.

[illegible]

## Completing a Proof

Given:  $\angle KMN = 28^\circ$

Prove:  $\angle JMN = 90^\circ$



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