## Topic: Uno Proofs

Yellow 5 Yellow 1

## What does it mean to prove something?

- To provide or demonstrate sufficient evidence that something is true
  - To win an argument

# Why do a proof in Geometry?

• To show our understanding of Geometry topics and how they all connect!

### **Uno Proofs**

What are the 3 rules of Uno?

- 1. You can play a card of the \_\_\_\_\_ color
- 2. You can play a card of the \_\_\_\_\_ number
- 3. You can play a WILD card at ANY time in order to change the \_\_\_\_\_

### **Two-Column Proof**

Statements		Reasons		
Progression of our argument laid out STEP by STEP		<b>WHY</b> CAN WE SAY THE STATEMENTS? (These can be postulates, theorems, or reasons)		
These statements are things that MUST be true!		Why are the statements TRUE?		
<ul> <li>Should always be one of yourstatements</li> <li>Use your knowledge to build off of this</li> <li>Continue using <i>LOGICAL</i> conclusions</li> <li>Look for OBVIOUS things (shared sides, linear pairs, vertical angles, etc.)</li> <li>End • Your "prove" should be your statement!</li> </ul>				
Uno Proof Examples	Given: Blue 6	Prove: Yellow Reverse		
dix2	Statements:	Reasons:		
Blue Skip	(What card to play)	(Why can we play that card?)		

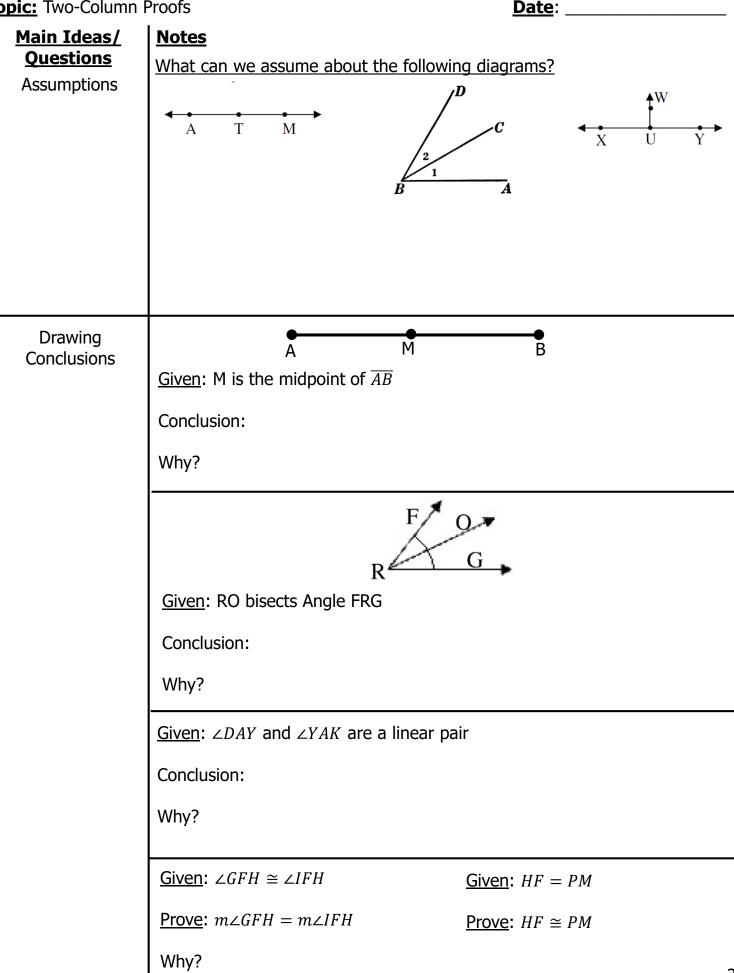
**Topic:** Introduction to Two-Column Proofs

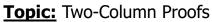
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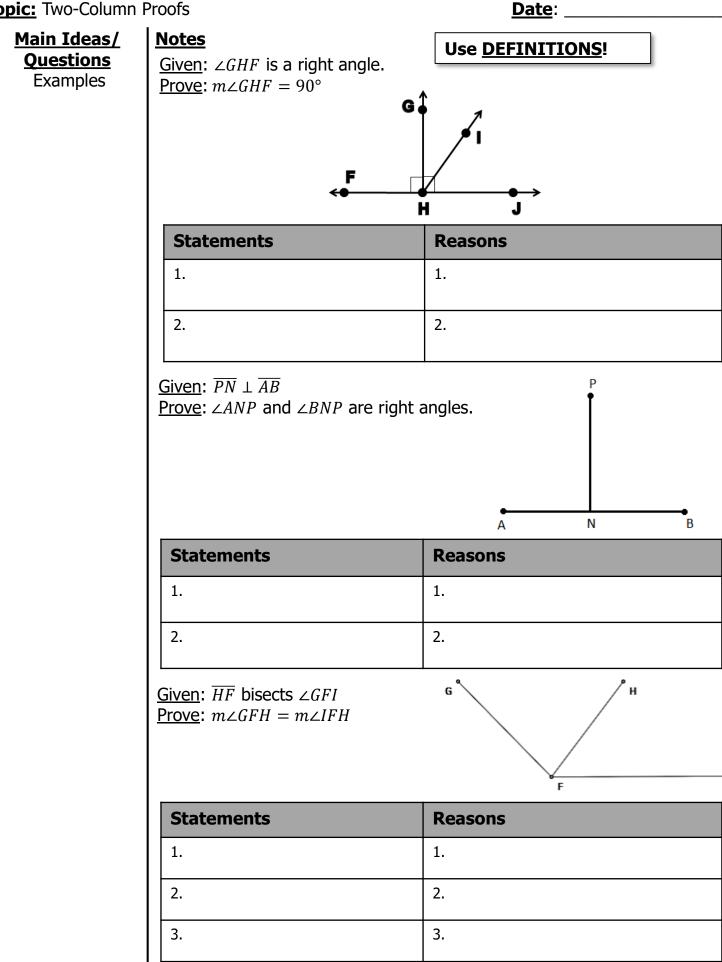
# Learning Objective(s) :

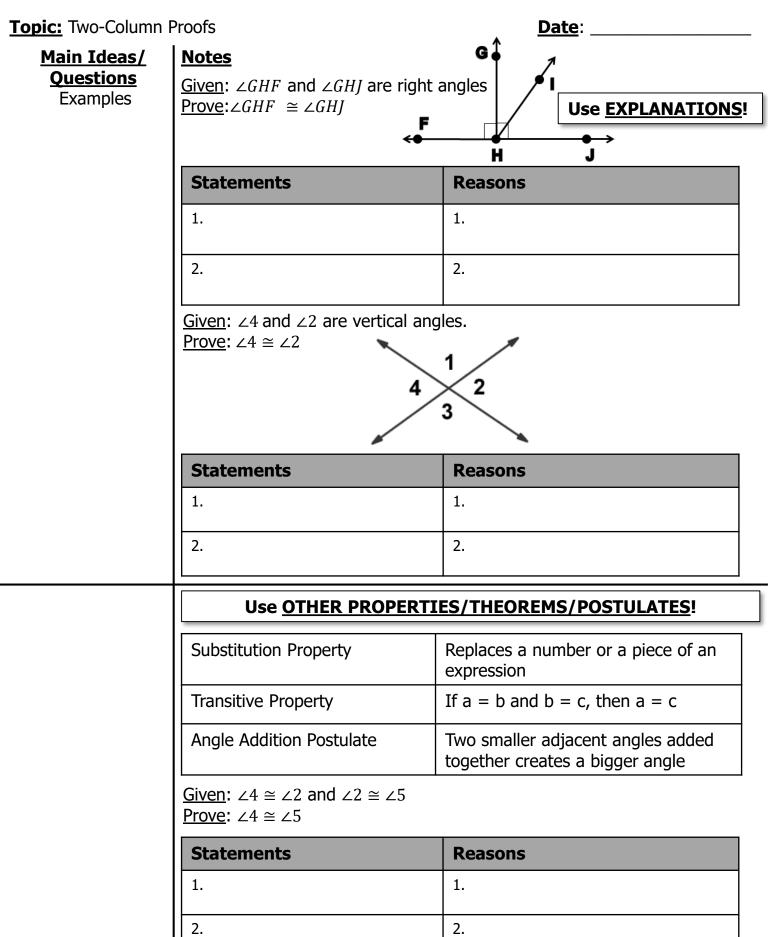
Main Ideas/ Questions Uno Proof ExamplesImage: Construction of the symplesImage: Construction of the symples </th <th>Notes Given: Blue 5 Statements: (What card to play)</th> <th>Prove: Green 6 Reasons: (Why can we play that card?)</th>	Notes Given: Blue 5 Statements: (What card to play)	Prove: Green 6 Reasons: (Why can we play that card?)	
Simple Properties and Properties of Equality	Use <u>SIMPLE PROPERTIES AND PROPERTIES OF EQUALITY</u> !		
	Addition Property of Equality	Subtraction Property of Equality	
	Multiplication Property of Equality	Division Property of Equality	
	Symmetric Property	If $a = b$ , then $b = a$	
	<u>Given</u> : $2x + 3 = 4x - 7$ <u>Prove</u> : $x = 5$		
	Statements	Reasons	
	1.	1.	
	2.	2.	
	3.	3.	
	4.	4.	
	5.	5. 1	

Topic: Two-Column Proofs









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3.