

Proofs with Uno Assignment 9.0b

Name: _____

Period: _____

Date: _____

Part 1

Using the techniques discussed in class, prove each problem using some or all of the cards mentioned in the problem. Complete a two-column proof for each exercise, with statements and reasons in the columns. **A reason is needed for each statement.** The final statement will be the item being proved.

Example:

Given: Yellow 4

You have in your hand:

- Red 4
- Blue Draw 2
- Blue Skip
- Green Skip
- Green 4

Prove: Blue Draw 2

Statement	Reason
Yellow 4	Given
Green 4	Same Number
Green Skip	Same Color
Blue Skip	Same Symbol
Blue Draw 2	Same Color

All cards could have been played with an additional step by starting the proof with the Red 4:

Statement	Reason
Red 4	Given

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1) **Given:** Green Draw 2

You have in your hand:

- *Yellow 8*
- *Blue 6*
- *Red 4*
- *Red Skip*
- *Green Skip*

Prove: Red 4

Statement	Reason

2) **Given:** Red Draw 2

You have in your hand:

- *Red 4*
- *Red 8*
- *Yellow 4*
- *Yellow 9*
- *Green 9*
- *Green 6*
- *Blue 8*
- *Blue Draw 2*

Prove: Yellow 4

Statement	Reason

3) **Given:** Blue 6

You have in your hand:

- *Green Reverse*
- *Red 7*
- *Blue Reverse*
- *Wild Card*

Prove: Red 7

Statement	Reason

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4) **Given:** Yellow Draw 2

You have in your hand:

- Green 6
- Green 7
- Red 6
- Red Reverse
- Red Draw 2
- Yellow 6

Prove: Green 7

Statement	Reason

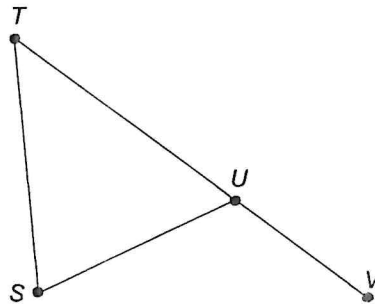
Part 2

Using a 2-column proof table, complete the following geometric proof.

Given:

- $m\angle T = 30^\circ$
- $m\angle VUS = 135^\circ$

Prove: $m\angle S = 105^\circ$



Note: Figure is NOT drawn to scale

Statement	Reason