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

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

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

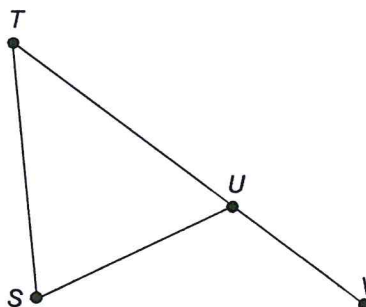| Statement	Reason

Part 2

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

Given:

- $m\angle T = 30°$
- $m\angle VUS = 135°$

Prove: $m\angle S = 105°$

Note: Figure is NOT drawn to scale

Statement	Reason