

Name: _____ Period: _____

Proof Writing 101

Theorem: If ABCD is a parallelogram, then $\angle A \cong \angle C$.

Step 1: Read the _____ / _____ statement very carefully.

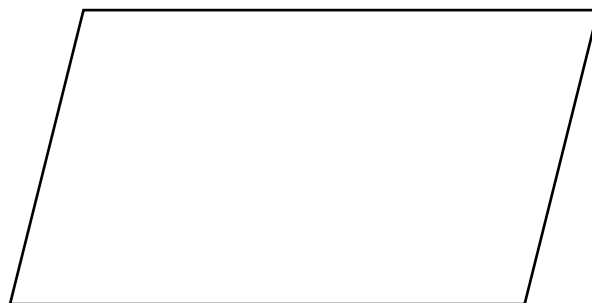
- Everything after the word “if”, but before the word “then” will be _____ information that you may use in your proof.
- Everything after the word “then” is what you are trying to _____. You may not assume this to be true **anywhere** in your proof until you have actually proven it.

Using the theorem above, fill out the following table:

Given Information:	What We Are Trying to Prove:

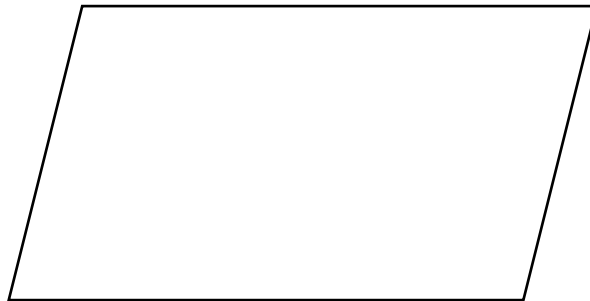
Step 2: Draw a diagram of what you want the geometric figure to look like once you have finished the proof. This is your goal and will help you organize the arguments you will need to make in your proof.

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Step 3: Draw a diagram with only the given information labeled on it.

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Step 4: Begin a rough draft of your proof. Mark your diagram with any new information gathered in your proof.

Statement	Reason

Step 5: Take your rough draft and write it in paragraph proof form.

- The first line in your paragraph proof should read:
- The last line in your paragraph proof should read:
- Your paragraph proof should be in complete sentences and fill in any details that are missing from your draft.

Write a paragraph proof based on your rough draft from the previous page. Highlight any details that were not included in the rough draft of your proof.

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