


# H. Geometry – Chapter 4 – Definition Sheet

## Section 4.7

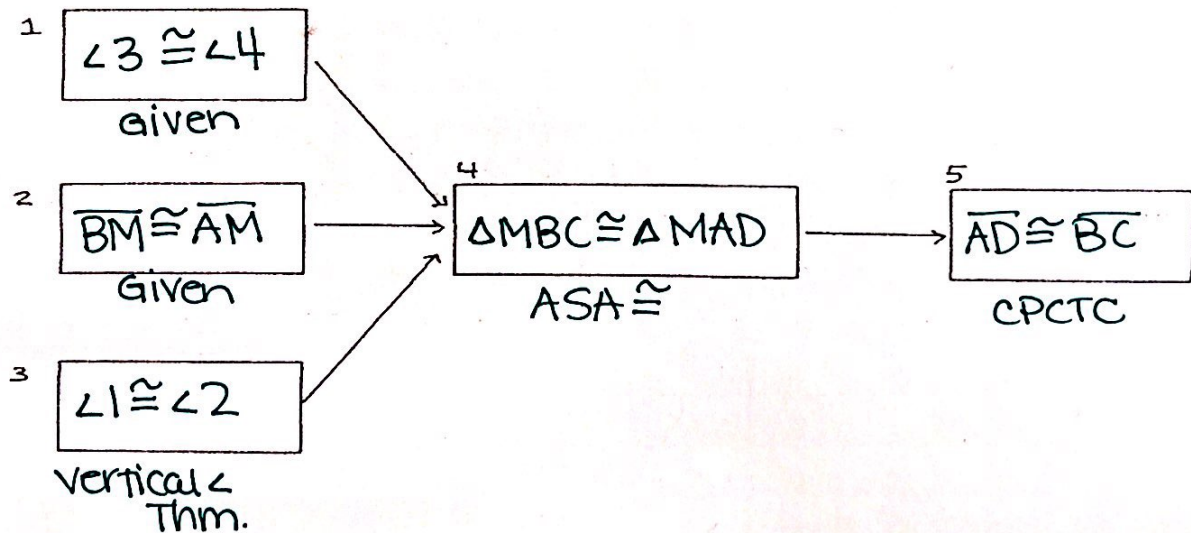
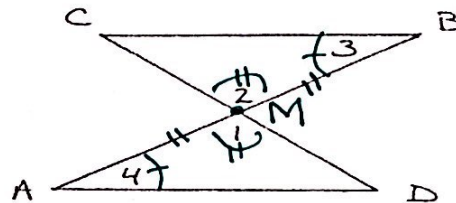
<p>Proofs using congruent triangles</p>	<p>Formats: <u>2-column format</u>, <u>paragraph proof</u>, <u>flow-chart proof</u></p>
<p><u>Flowchart</u></p>	<ul style="list-style-type: none"> <li>- A concept map showing a step-by-step procedure through a complicated system or problem.</li> <li>- Can be used to plan/visualize logical thinking</li> <li>- Boxes – used to represent actions</li> <li>- Arrows – used to connect boxes to show flow of actions through a logical progression</li> </ul> 

### FLOW-CHART PROOF:

EXAMPLE 1 (AGAIN)

GIVEN:  $\angle 3 \cong \angle 4$   
 $\overline{BM} \cong \overline{AM}$

PROVE:  $\overline{AD} \cong \overline{BC}$



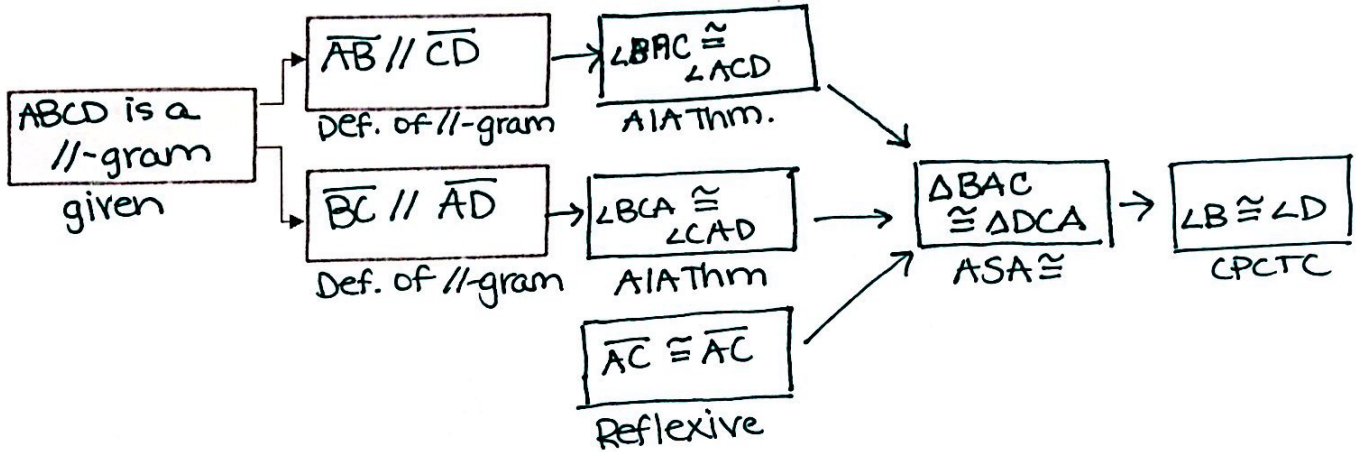
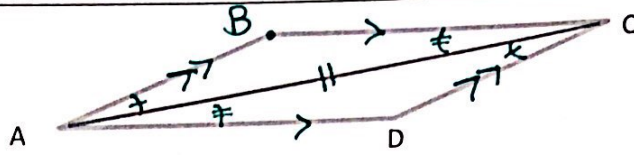
B

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Example 2:

Given: ABCD is a parallelogram

Prove:  $\angle B \cong \angle D$



EXAMPLE 3.

GIVEN:  $\overline{GE} \cong \overline{GM}$   
 $\overline{EO} \cong \overline{MO}$

PROVE:  $\angle E \cong \angle M$

