

(DN) Copy and complete the statement:

In lesson 4.1L, SAS stood for \_\_\_\_\_. What will these abbreviations stand for?

ASA \_\_\_\_\_ SSA \_\_\_\_\_

SSS \_\_\_\_\_ AAA \_\_\_\_\_

AAS \_\_\_\_\_

HL \_\_\_\_\_ (this one is a challenge)

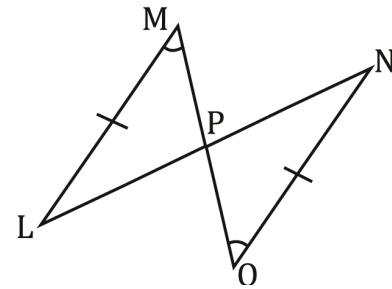
Name \_\_\_\_\_ Per \_\_\_\_\_

LO: I can use triangle congruence shortcuts (SAS, SSS, ASA, AAS, and HL) to prove that two triangles are congruent.

(1) Proving pairs of congruent triangles

(a) Given:  $\overline{LM} \cong \overline{NO}$ , and  $\angle M \cong \angle O$

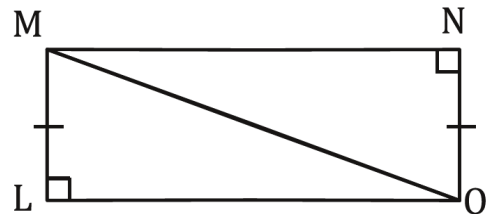
Prove:  $\triangle MPL \cong \triangle NPO$



I know that ...	because ...

(b) Given:  $\overline{LM} \cong \overline{NO}$

Prove:  $\triangle LMO \cong \triangle NOM$



I know that ...	because ...

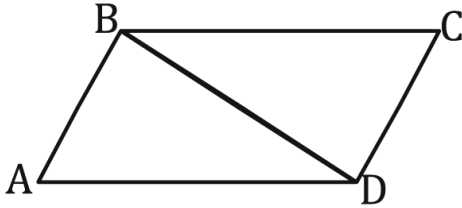




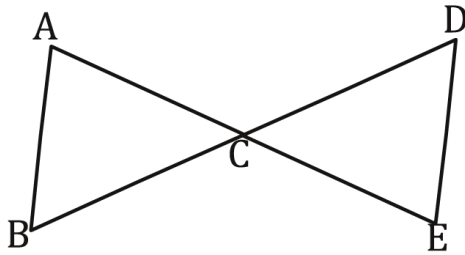


## □ (3) Homework

(2)

Given:  $\overline{AB} \cong \overline{CD}$ ,  $\overline{AD} \cong \overline{CB}$ Prove:  $\triangle ABD \cong \triangle BCD$ 

I know that ...	because ...

(3) Given:  $\overline{AE}$  Bisects  $\overline{BD}$ ,  $\angle B \cong \angle D$ Prove:  $\triangle ABC \cong \triangle DEC$ 

I know that ...	because ...