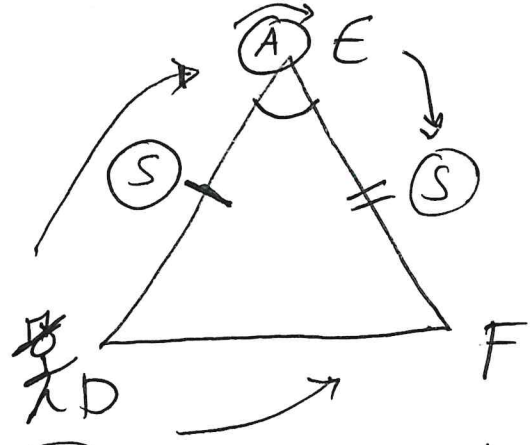
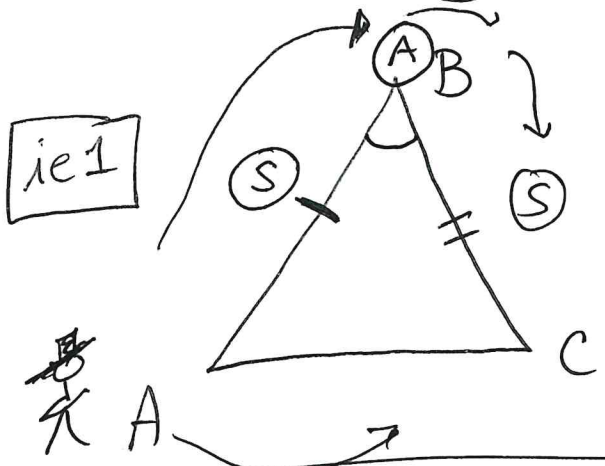


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# Lesson 22 SAS

prove  $\Delta$ 's  $\cong$

## Side-Angle-Side SAS



$$\Delta ABC \cong \Delta DEF$$

$\rightarrow$  congruent statement

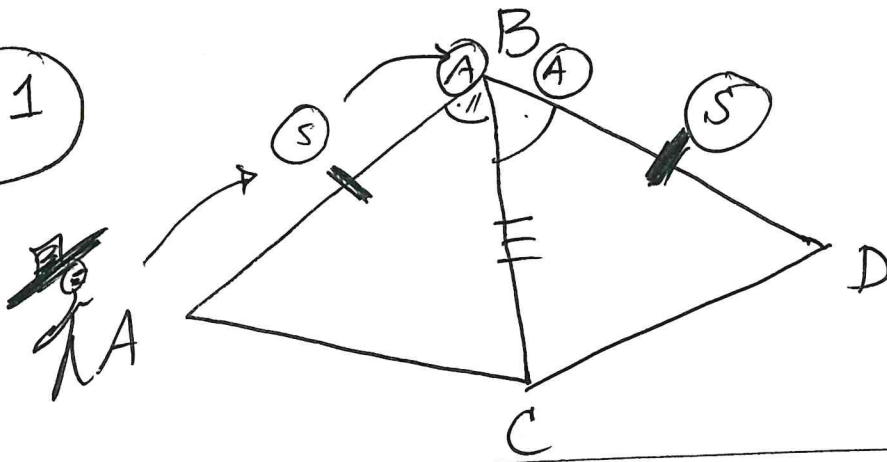
\* Closest  $\cong$  part

(S)  $\overline{AB} \cong \overline{DE}$

(A)  $\angle ABC \cong \angle DEF$

(S)  $\overline{BC} \cong \overline{EF}$

ie 1



$\triangle ABC \cong \triangle DBC$  by SAS

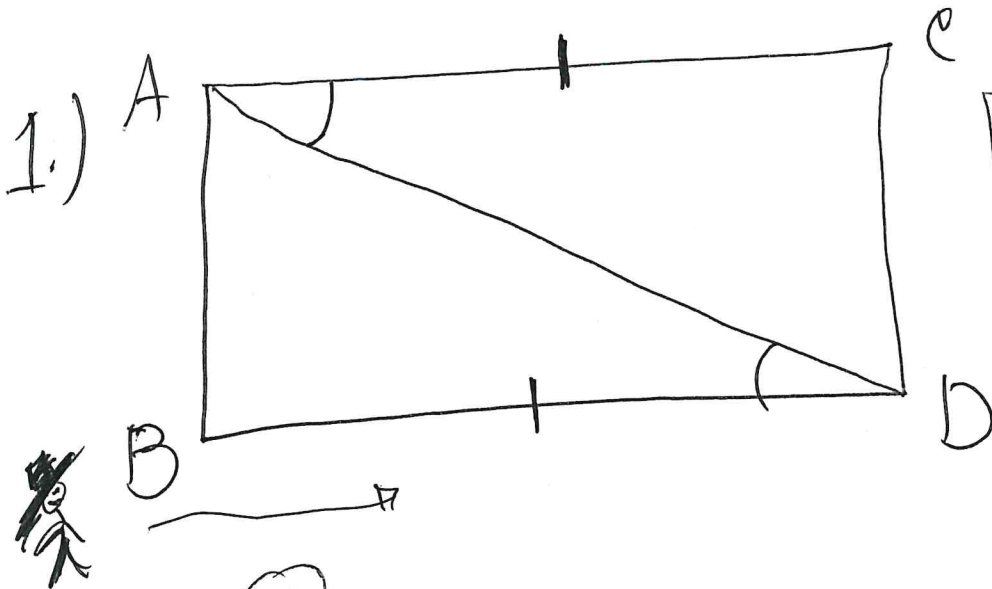
(S)  $\overline{AB} \cong \overline{BD}$

(A)  $\angle ABC \cong \angle CBD$   
or  $\angle DBC$

(S)  $\overline{BC} \cong \overline{BC}$

Reflexive  
anything ( $\cong$ )  
to itself

Find the congruence of the 2  $\Delta$ 's



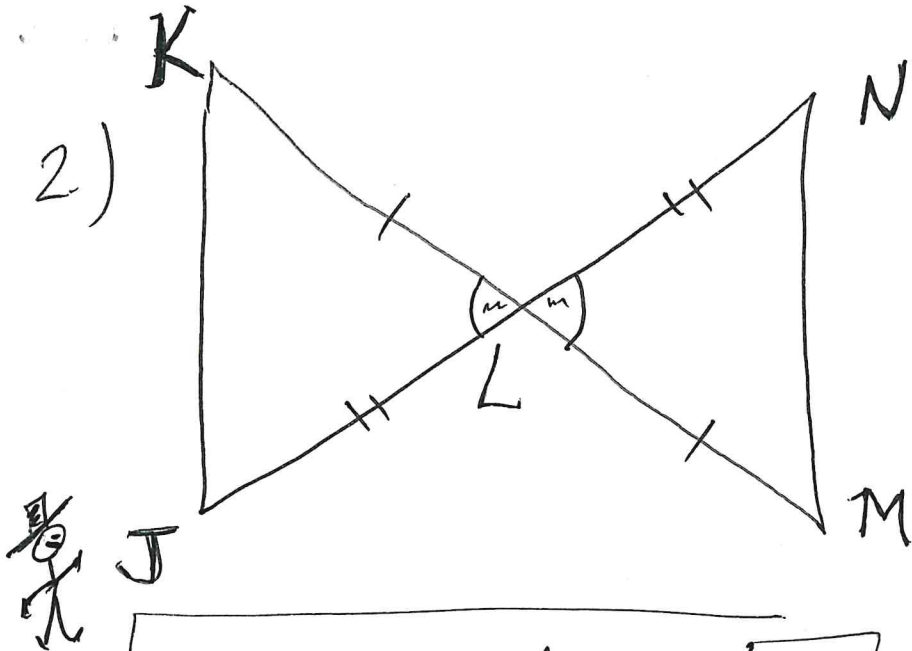
$\triangle ABD \cong \triangle ACD$   
by SAS

(S)

(A)

(S)

2)



$\triangle JKL \cong \triangle NML$   
by SAS

(S)

(A)

(S)