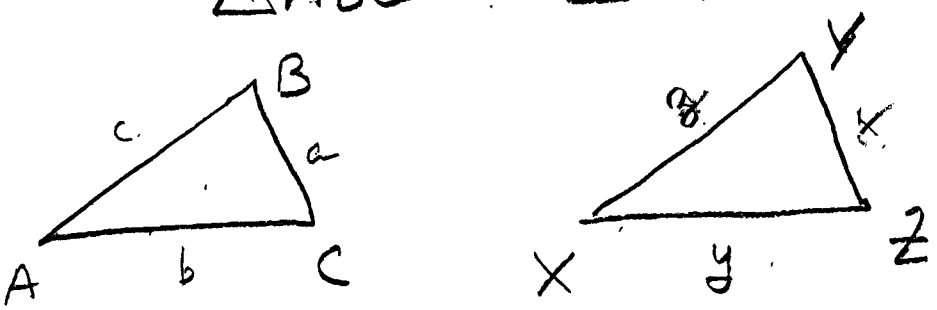
Geometry 1 | Monday 10-8-12 | Class Notes

Ch. 4-4 Congruent Triangles

$\triangle ABC \cong \triangle XYZ$

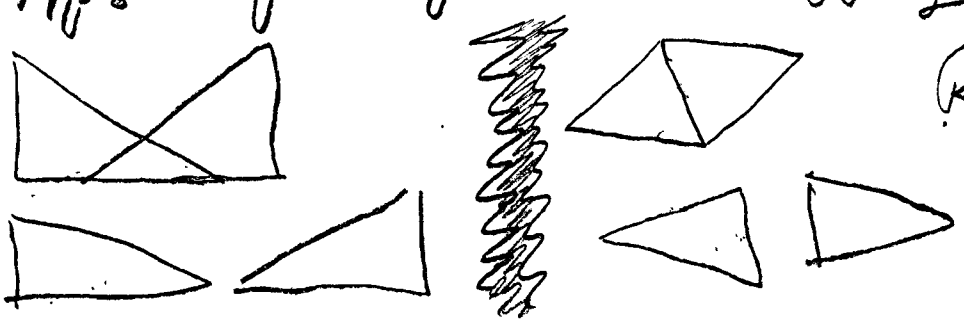


CPCTC

Corresponding Parts of Congruent Triangles are Congruent!

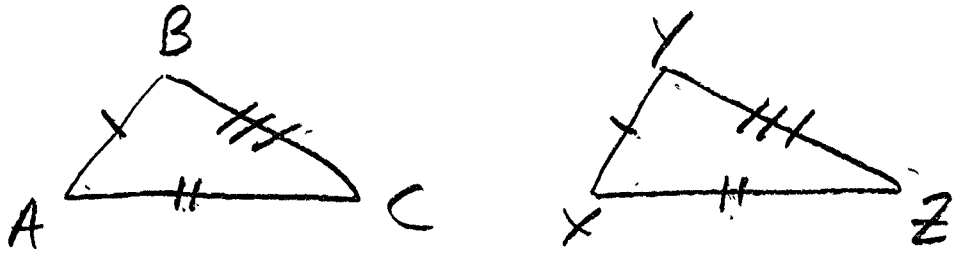
No matter how they may be turned, congruent triangles are identical.

Pg 241 Tip: "pull apart" overlapping $\triangle$'s



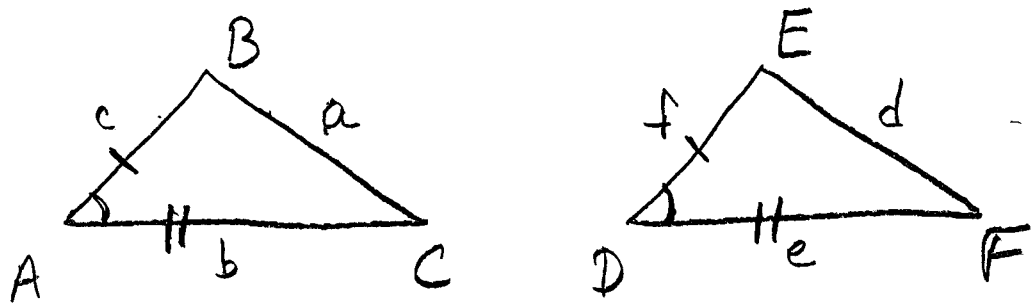
RELABEL

Ch. 4-5 Triangle Congruence
SSS and SAS



SSS

$\triangle ABC \cong \triangle XYZ$

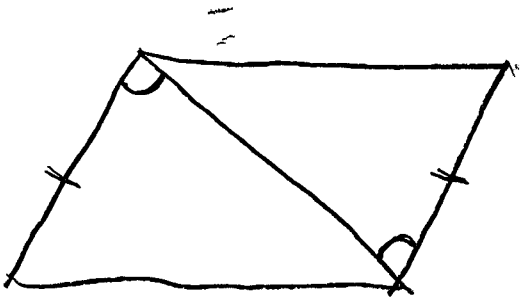


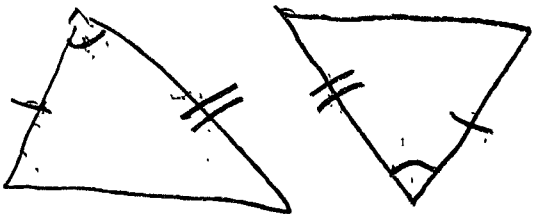
SAS

$\triangle ABC \cong \triangle DEF$

CPCTC

WS ③

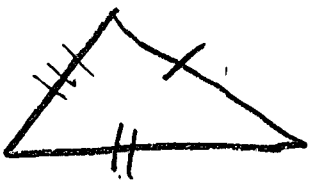


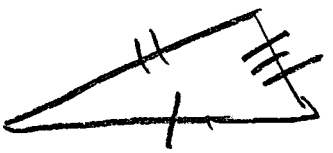


Are $\cong$

SAS

WS ⑦

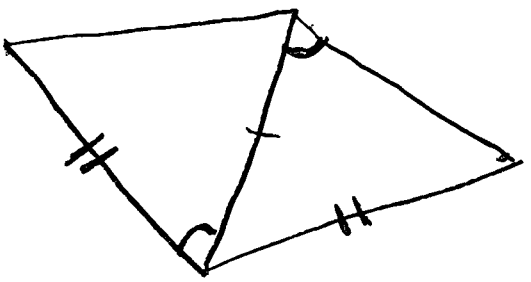




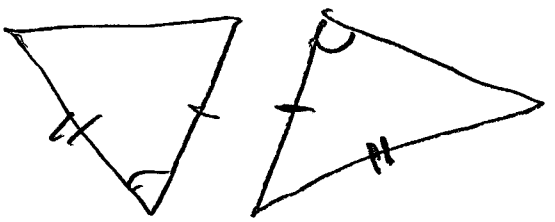
SSS

Are $\cong$

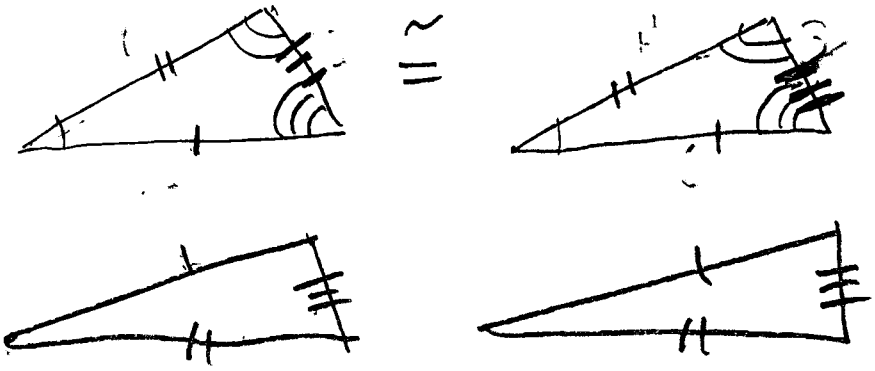
WS ①



NOT $\cong$

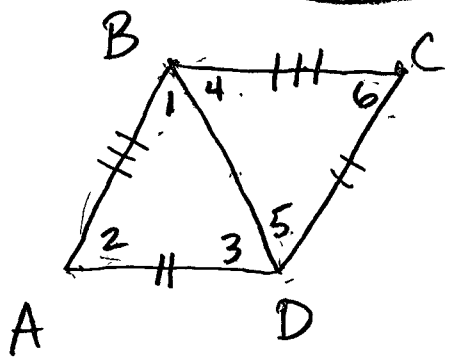


(Ex) 3, 4, 6



SSS

WS (2)



$\triangle ABD \cong \triangle CBD$

$m\angle 2 = m\angle 6$ | $\angle 2 \cong \angle 6$

$m\angle 1 = m\angle 4$

$m\angle 3 = m\angle 5$

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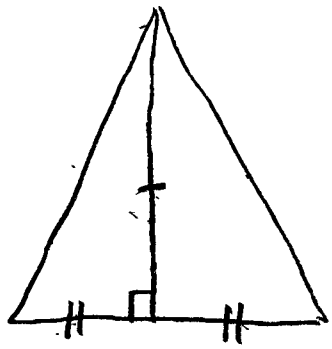
(10)



Yes, Congruent

SAS

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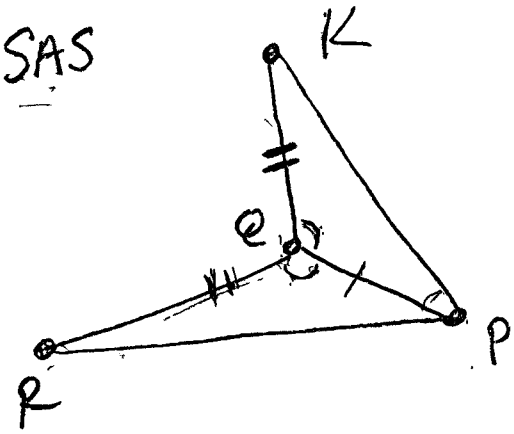
(21) SAS



$\angle RQP \cong \angle KQP$

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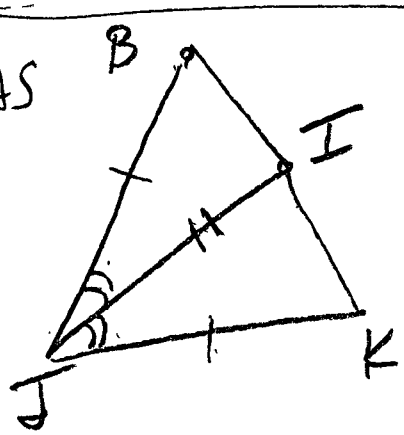
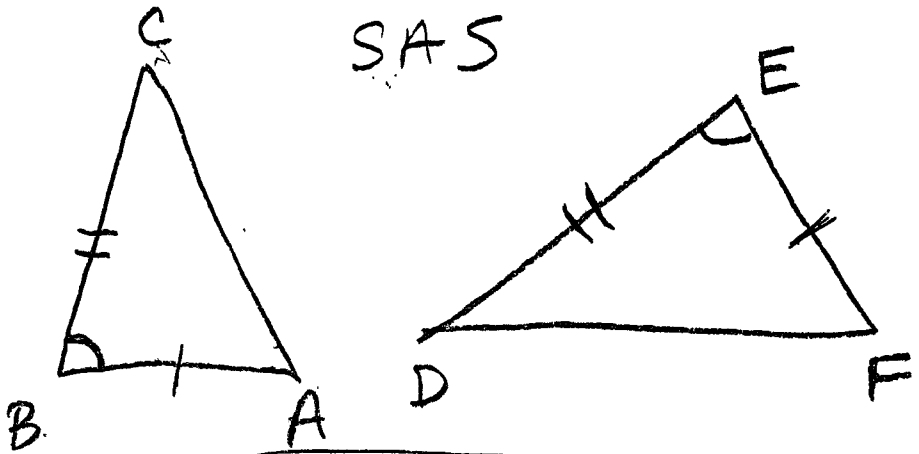
(23) SAS



$\overline{JB} \cong \overline{JK}$ ✓

(24) SAS



$\overline{BA} \cong \overline{EF}$

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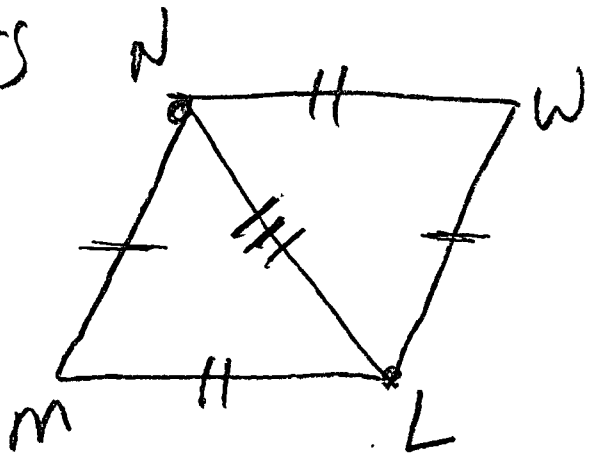
(31) SSS



$\overline{MN} \cong \overline{WL}$

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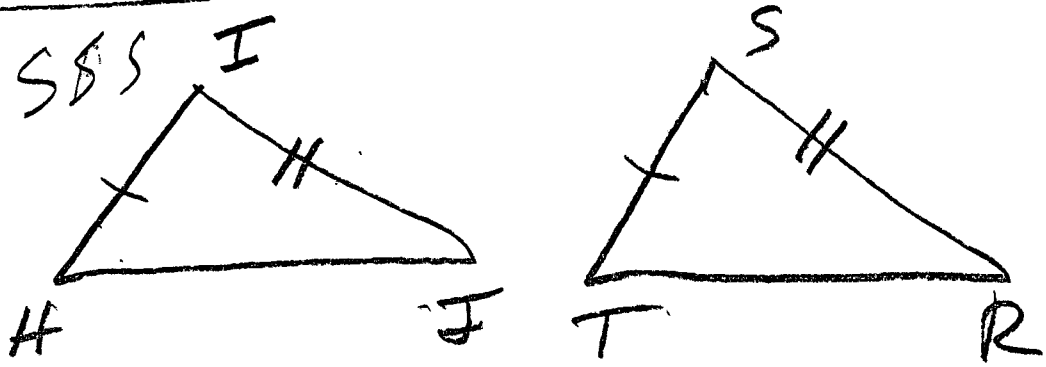
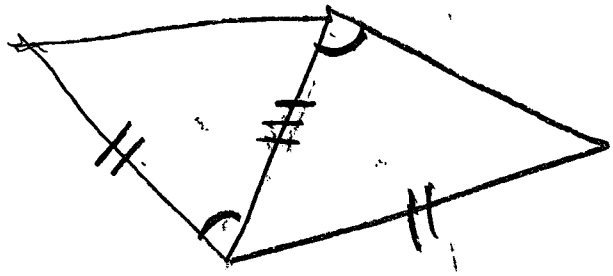
(34) SSS

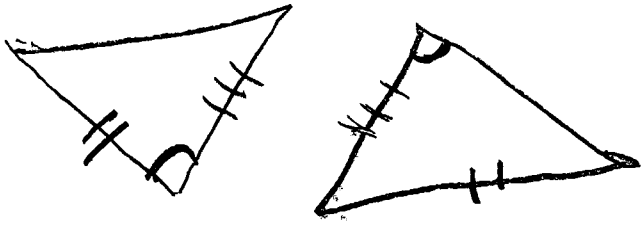


$\overline{HJ} \cong \overline{TR}$

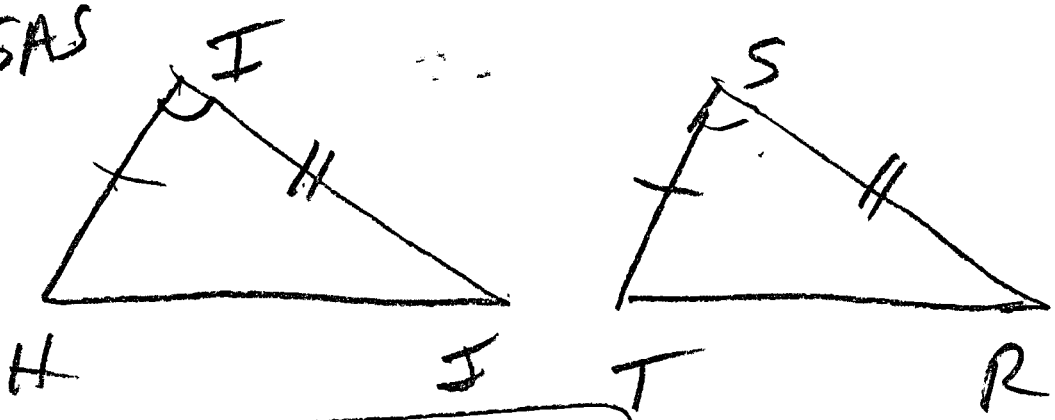
(1)



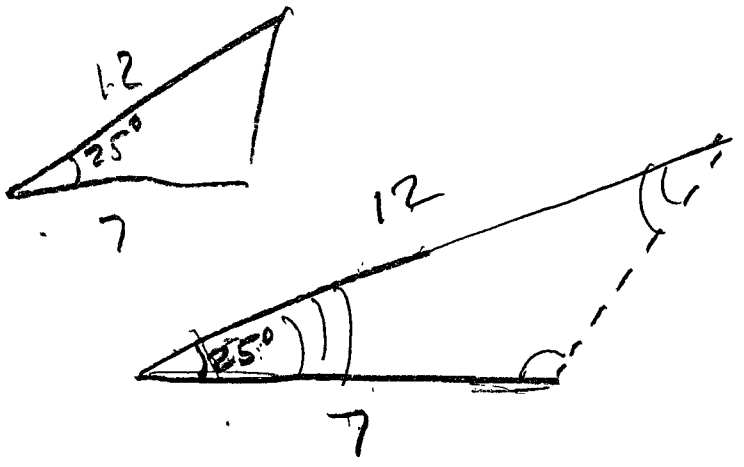
NOT $\cong$



(Ex) SAS

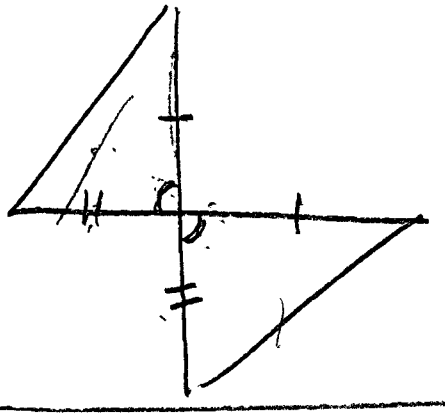


$\angle I \cong \angle S$



SAS

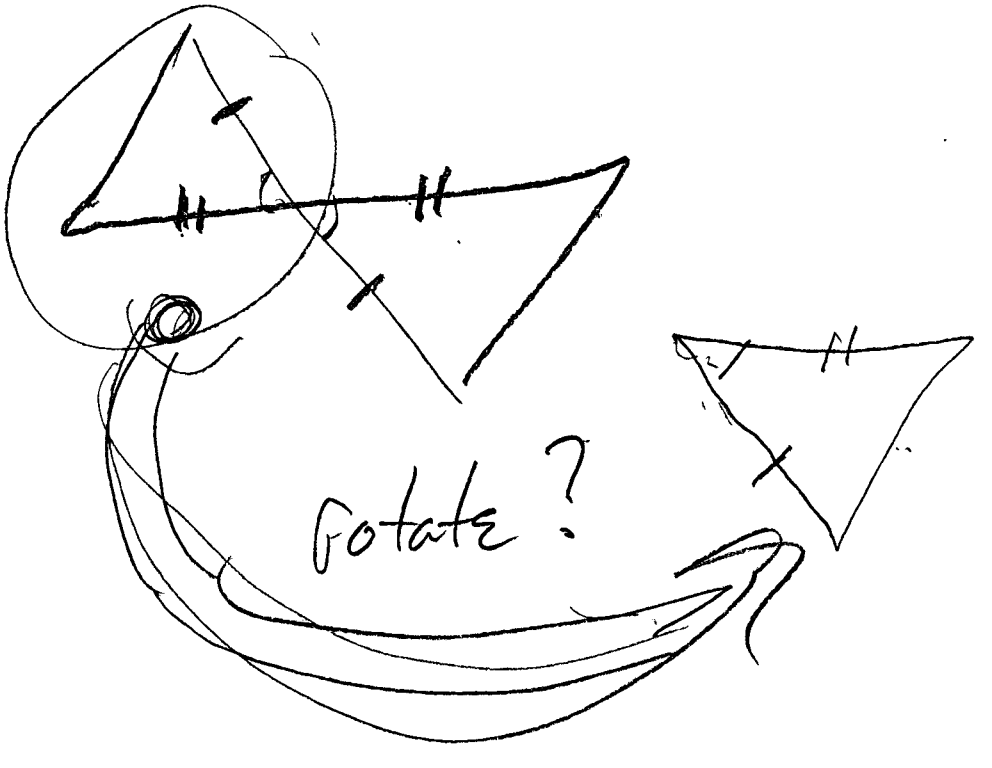
(4)



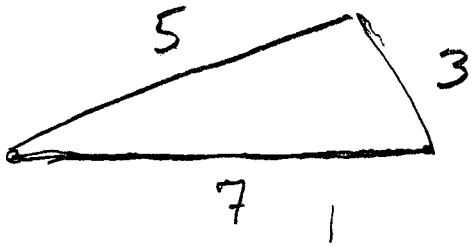
Yes $\cong$

SAS

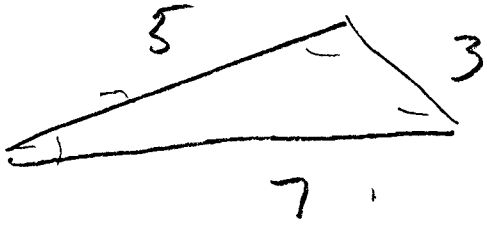
Ex

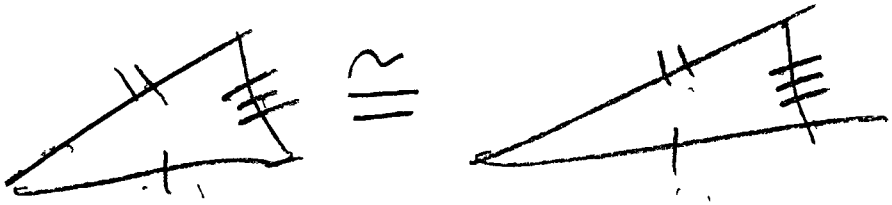


3, 7, 5.

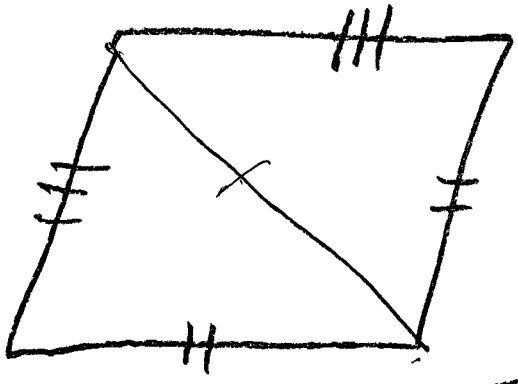


SSS





(2)



Yes ≅

SSS