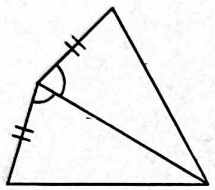
Geometry Name_____ ID: 1

Triangle Congruence Shortcuts 5.3, 5.5, 5.6

Date_____ Period____

Determine if the two triangles are congruent. If they are, state the shortcut. If not, write "cannot be determined."

1)



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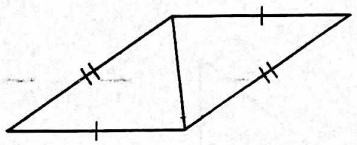

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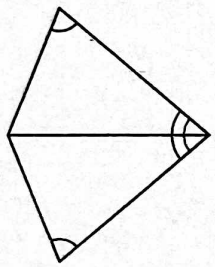

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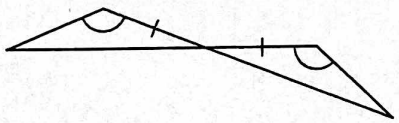

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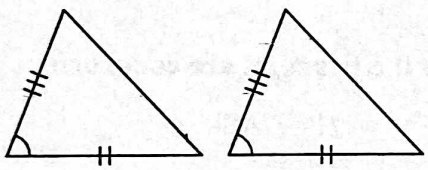

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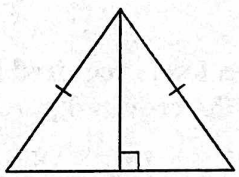

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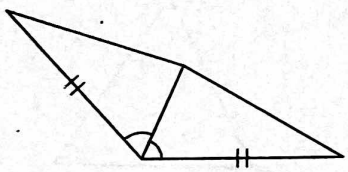

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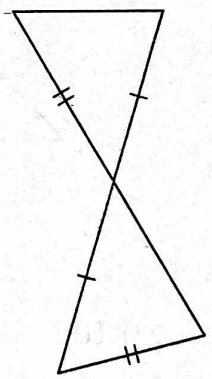

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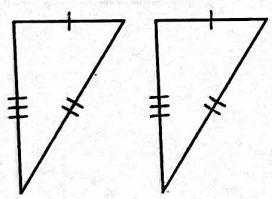

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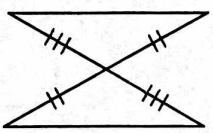

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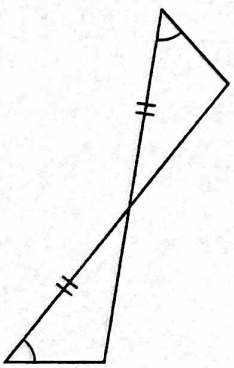

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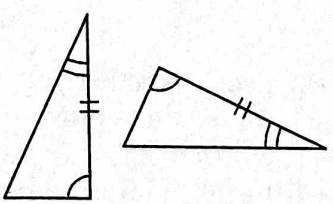

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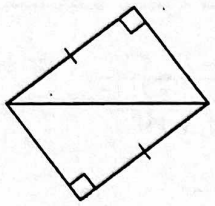

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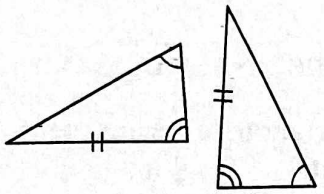

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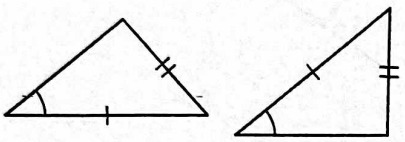

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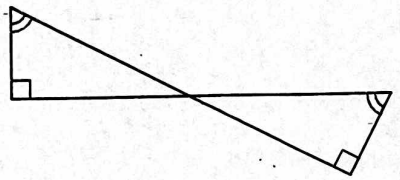

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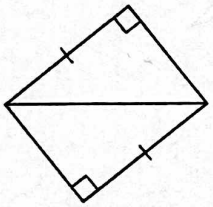

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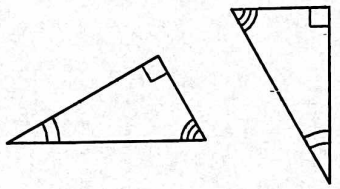
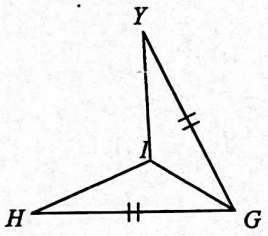
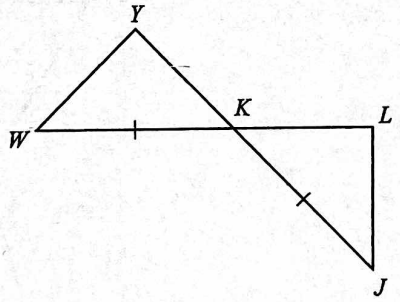


State what additional information is required in order to know that the triangles are congruent for the reason given. (Name the required parts)

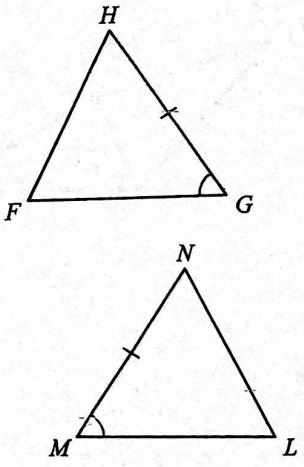
19) SSS



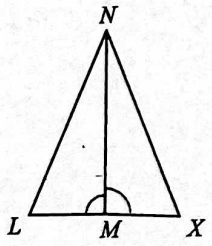
20) SAS



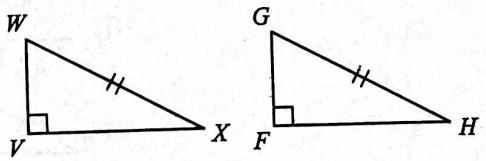
21) AAS



22) ASA



23) HL



24) In each case below, decide whether you can use the given information to prove $\triangle ABC \cong \triangle DEF$. Hint - sketch the triangles and mark the given information

a. $\angle A \cong \angle D, \angle C \cong \angle F, \overline{AC} \cong \overline{DF}$

b. $\angle C \cong \angle F, \overline{AB} \cong \overline{DE}, \overline{BC} \cong \overline{EF}$

c. $\angle B \cong \angle E, \angle C \cong \angle F, \overline{AC} \cong \overline{DE}$

d. $\angle A \cong \angle D, \angle B \cong \angle E, \overline{BC} \cong \overline{EF}$