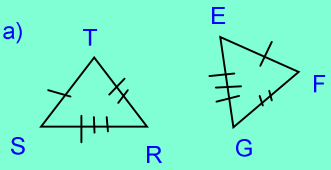
Ch 5.2: Side, Side, Side (SSS)
and
Side Angle Side (SAS)

SSS Congruency Postulate: If 3 sides of a trianlge are congruent to 3 sides of another triangle, then they are congruent.

Ex1a)



△ STR ≅ △ EFG

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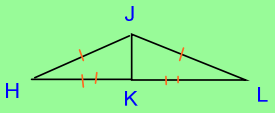
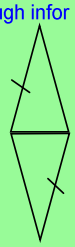
Ex1b)



Ex1c) Is there enough infor to determine if they are ≅?



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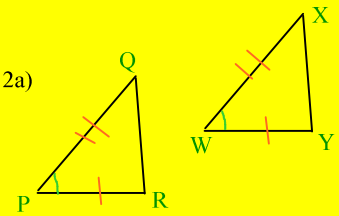
Ex2) ***Side-Angle-Side (SAS) Congruence Postulate*** - If 2 sides and the included angle of one triangle are congruent to the 2 sides and the included angle of another triangle, then they are congruent.

Ex 2a)



△PQR ≅ △WXY

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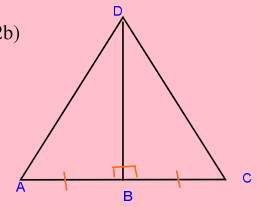
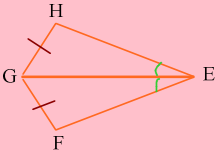
Ex2b)



Ex2c)



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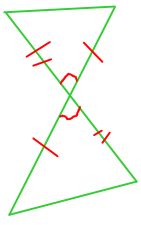
1 Decide is there enough information to determine if congruent triangles?

Yes

No



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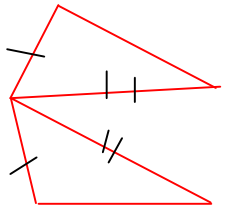
2 2.

Yes

No



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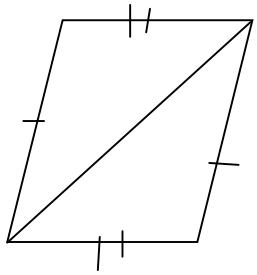
3 3.

Yes

No



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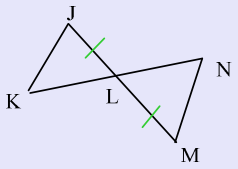
Ex3) Prove $\Delta JKL \cong \Delta NML$



1. JL ≅ NL — 1. Given
   L is the midpoint of KN

2.

3.

4. Δ JKL ≅ ΔNML

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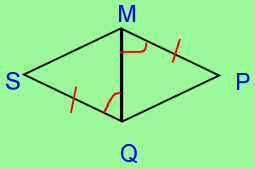
Ex3b) Prove $\Delta QSM \cong \Delta MPQ$



1. $\overline{SQ} \cong \overline{MP}$ — 1. Given
   $< SQM \cong < PMQ$

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