

Key

UNIT 7B Similarity, Congruence and Proofs
Accelerated CCGPS Algebra/Geometry

Standards:

- Understand similarity in terms of similar transformations
- Prove theorems involving similarity
- Understand congruence in terms of rigid motions
- Prove geometric theorems
- Make geometric constructions

Date	Topic	Practice
Wednesday 2-12	Corresponding Parts of Congruent Triangles	CPCT Practice Congruence and Triangles WS
Wednesday 2-19	<i>Congruent Triangles</i> Vocabulary flip-chart: Proving Triangles are Congruent PowerPoint	Congruent Triangles WS 1 & 2
Thursday 2-20	<i>Congruent Triangles</i> HW - Q&A Triangle Congruency Proofs Congruent Triangles WS 3	HW: Congruent Triangles WS 4
Friday 2-21	<i>Congruent Triangles / Midsegment</i> Congruent Triangles Quiz Midsegments of Triangles Discovery	Midsegment of a Triangle
Monday 2-24	<i>Points of Concurrency</i> Paper-folding Discovery	HW: fill in vocabulary flip-charts
Tuesday 2-25	<i>Points of Concurrency</i> graphic organizer / properties Points of Concurrency Examples	Points of Concurrency WS
Wednesday 2-26	<i>Points of Concurrency</i> Points of Concurrency Quiz Centers of Triangles Learning Task	HW: finish Task
Thursday 2-27	<i>Points of Concurrency</i> discuss Task go over quiz Review for Test 7B	HW: Review for Test 7B
Friday 2-28	<i>Congruent Triangles / Points of Concurrency / Midsegment</i> Test 7B	

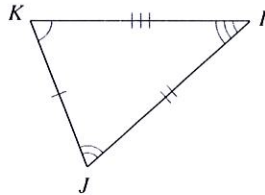
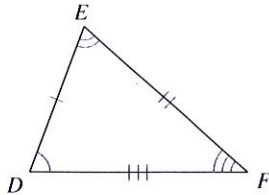
Congruence and Triangles

Complete each congruence statement by naming the corresponding angle or side.

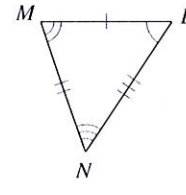
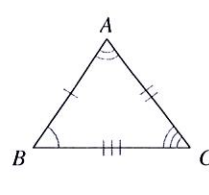
1) $\triangle DEF \cong \triangle KJI$

\overline{IK} 2) $\triangle BAC \cong \triangle LMN$

$\angle M$



$\overline{FD} \cong ?$



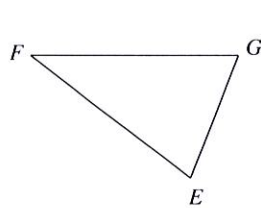
$\angle A \cong ?$

3) $\triangle TUV \cong \triangle GFE$

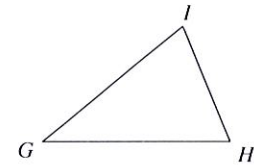
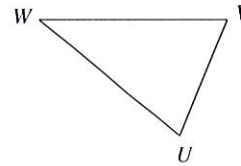
$\angle F$

4) $\triangle WVU \cong \triangle GHI$

$\angle G$



$\angle U \cong ?$



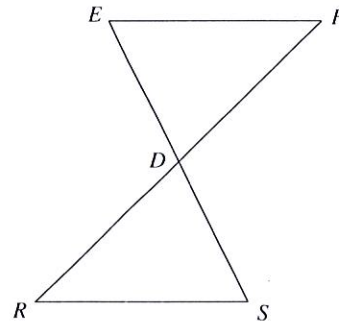
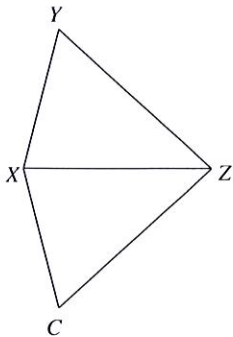
$\angle W \cong ?$

5) $\triangle ZXY \cong \triangle ZXC$

$\angle C$

6) $\triangle DEF \cong \triangle DSR$

$\angle R$



$\angle Y \cong ?$

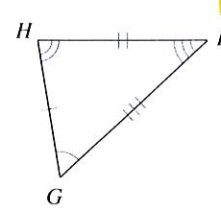
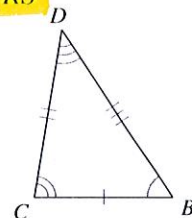
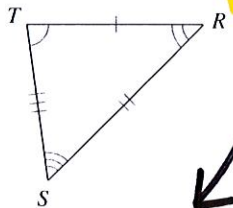
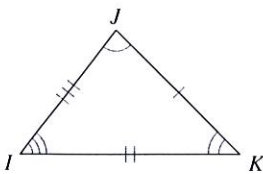
$\angle F \cong ?$

Write a statement that indicates that the triangles in each pair are congruent.

7)

$\triangle JKI \cong \triangle TRS$

$\triangle ABCD \cong \triangle GHI$



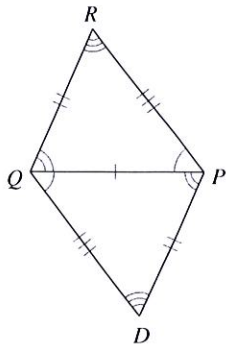
$\triangle JKI \cong \triangle TRS$

other answers
work

Multiple answers for #9-12

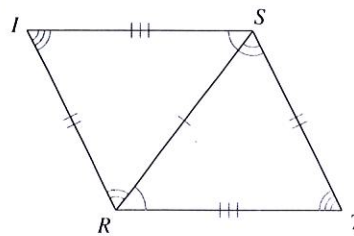
9)

$\triangle PQR \cong \triangle QPD$

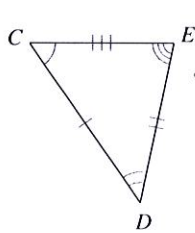
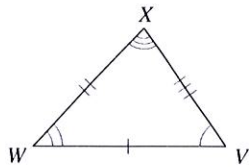


10)

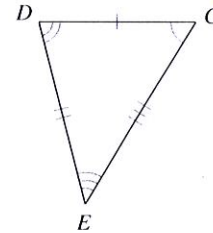
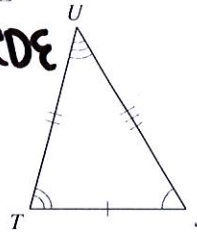
$\triangle RST \cong \triangle SRI$



11)



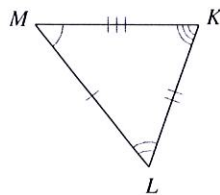
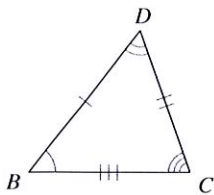
$\triangle VWX \cong \triangle CDE$
 $\triangle VWX \cong \triangle CDE$



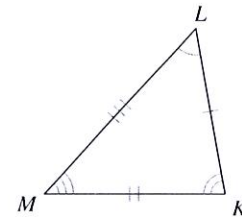
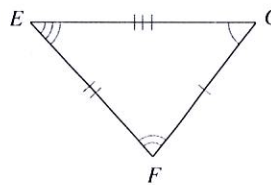
$\triangle STU \cong \triangle CDE$

Mark the angles and sides of each pair of triangles to indicate that they are congruent.

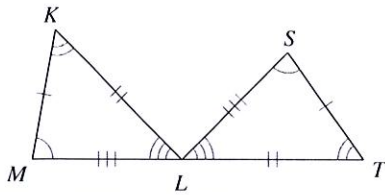
13) $\triangle BDC \cong \triangle MLK$



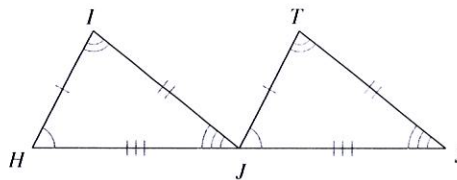
14) $\triangle GFE \cong \triangle LKM$



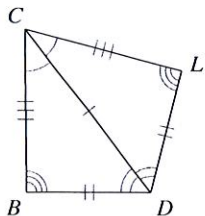
15) $\triangle MKL \cong \triangle STL$



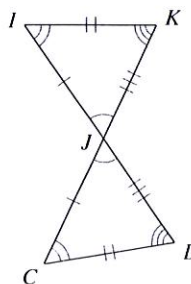
16) $\triangle HIJ \cong \triangle JTS$



17) $\triangle CDB \cong \triangle CDL$



18) $\triangle JIK \cong \triangle JCD$

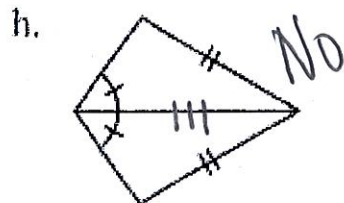
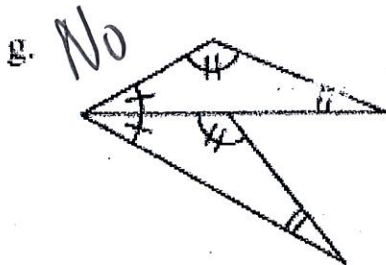
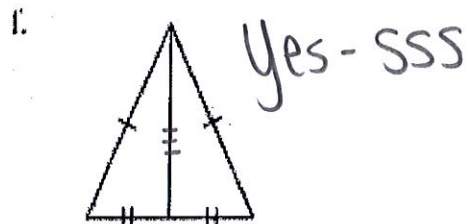
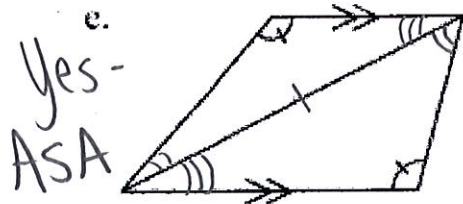
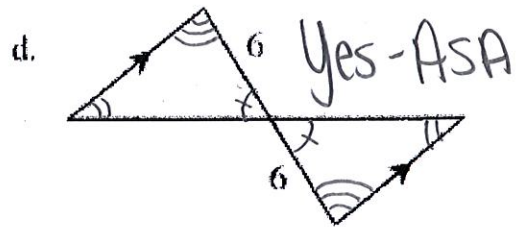
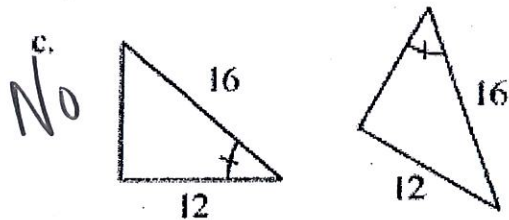
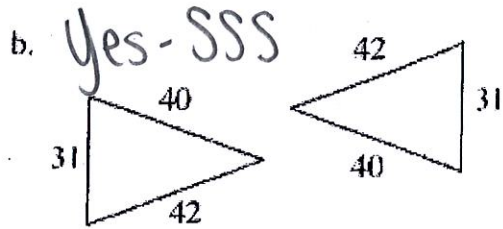
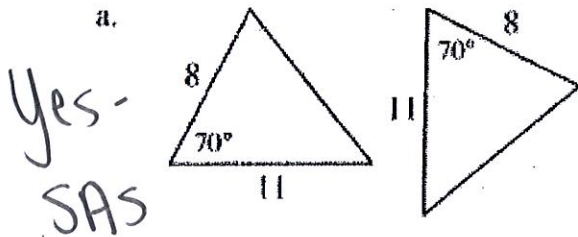


Congruent Triangles WS 1

Name: _____

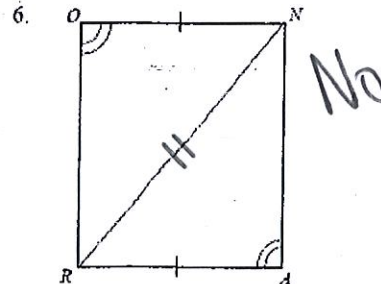
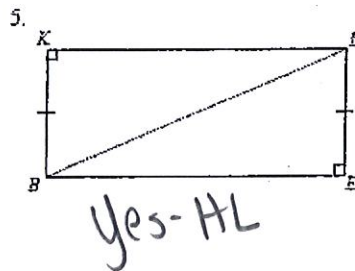
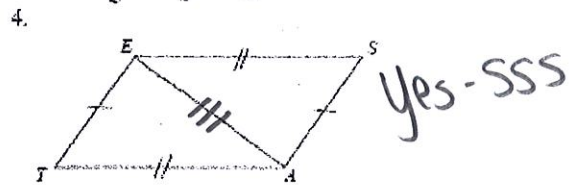
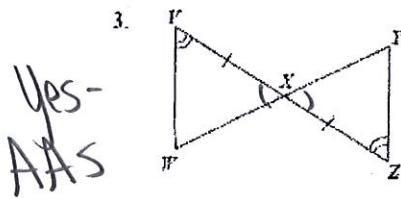
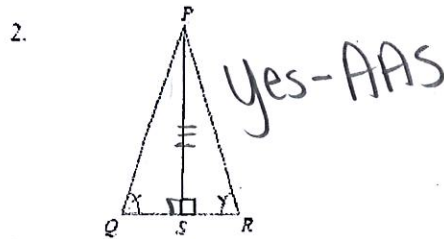
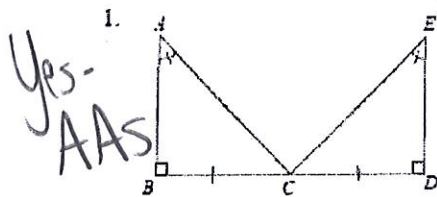
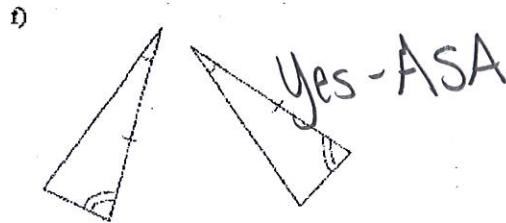
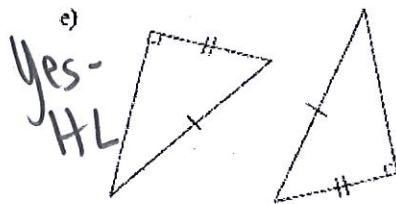
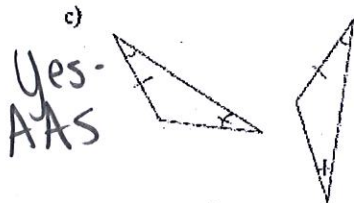
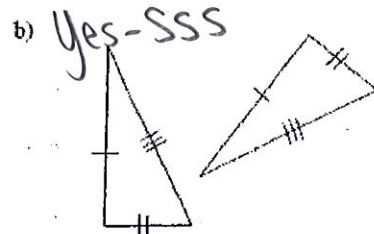
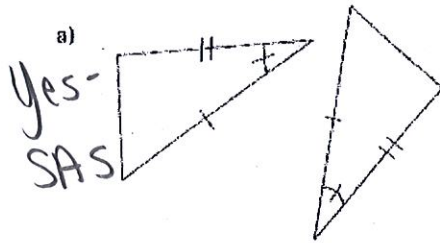
Use your triangle congruence conjectures to determine if the following pairs of triangles must be congruent.

Note: The Diagrams are not necessarily drawn to scale.

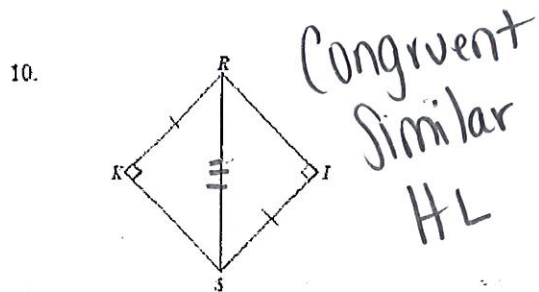
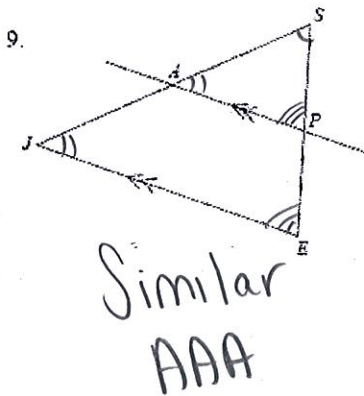
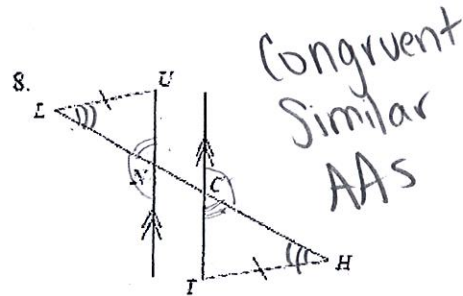
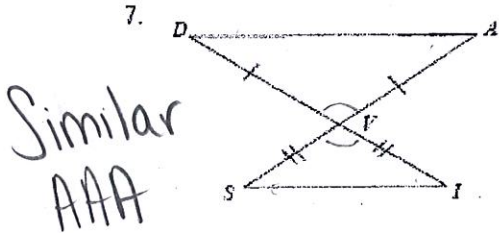
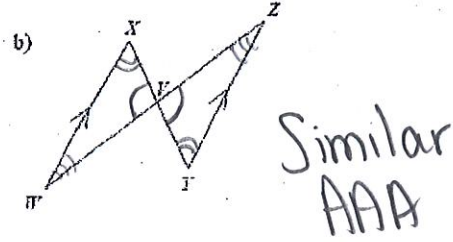
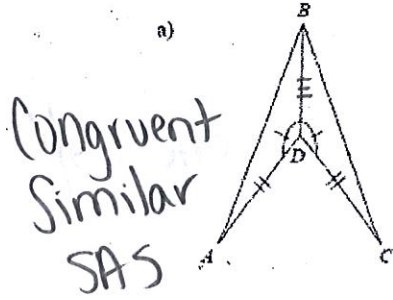


List your Five Triangle Congruence Shortcuts:

Using your congruence shortcuts, decide if the triangles are congruent. Write the shortcut you used.



7. Decide if the triangles below are congruent, similar or neither. Write the shortcut that you used.



Congruent w.s. #3

Kuta Software - Infinite Geometry

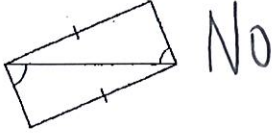
Name _____

SSS, SAS, ASA, and AAS Congruence

Date _____ Period _____

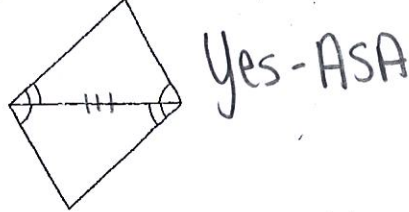
State if the two triangles are congruent. If they are, state how you know.

1)



No

2)



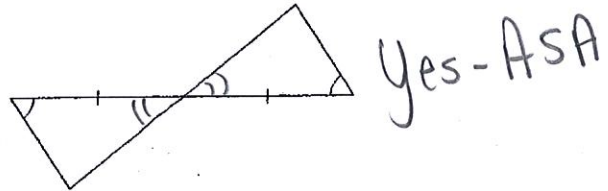
Yes-ASA

3)



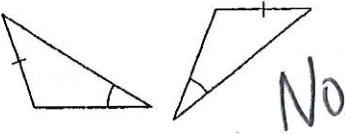
Yes-SSS

4)



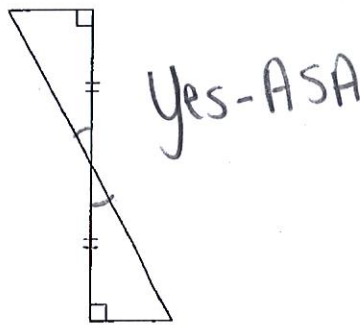
Yes-ASA

5)



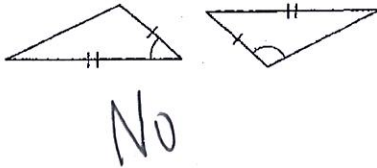
No

6)



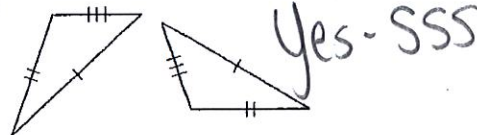
Yes-ASA

7)



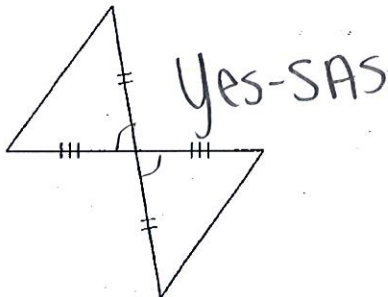
No

8)



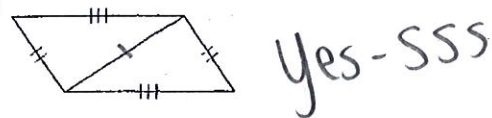
Yes-SSS

9)



Yes-SAS

10)

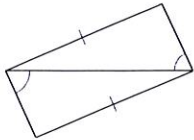


Yes-SSS

SSS, SAS, ASA, and AAS Congruence

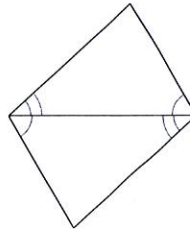
State if the two triangles are congruent. If they are, state how you know.

1)



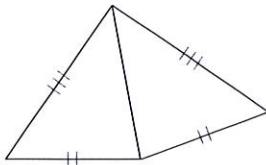
Not congruent

2)



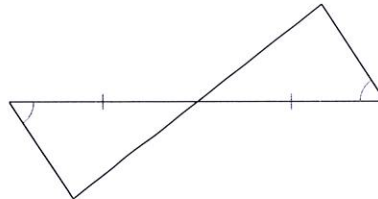
ASA

3)



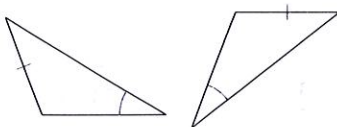
SSS

4)



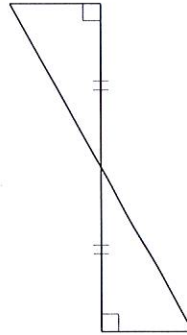
ASA

5)



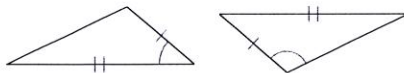
Not congruent

6)



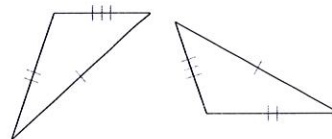
ASA

7)



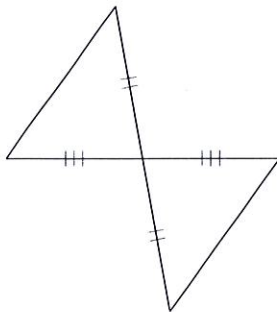
Not congruent

8)



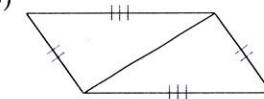
SSS

9)



SAS

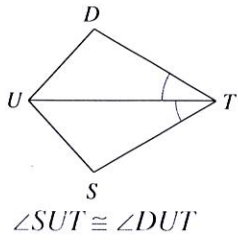
10)



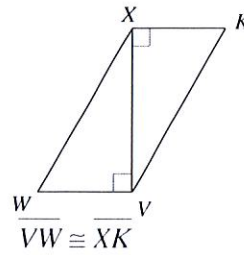
SSS

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

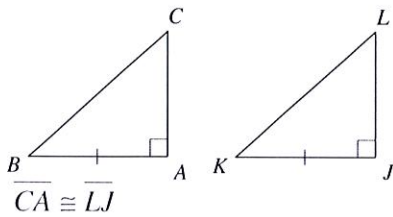
11) ASA



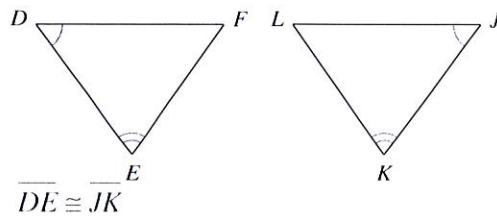
12) SAS



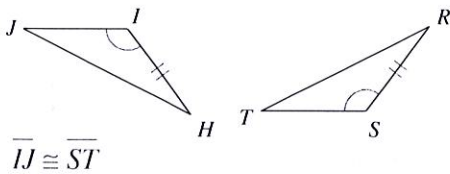
13) SAS



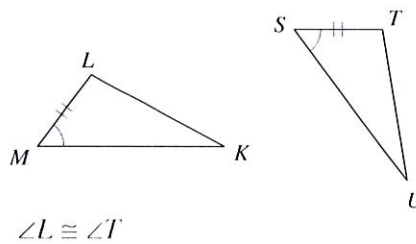
14) ASA



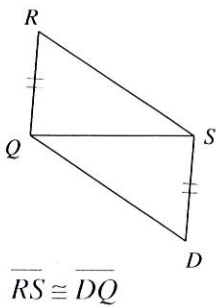
15) SAS



16) ASA



17) SSS



18) SAS

