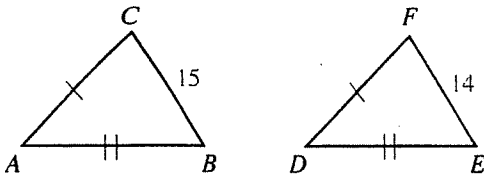


6.5 KEY

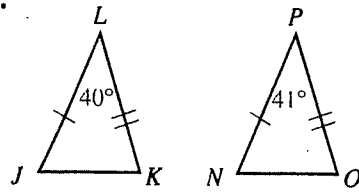
What can you deduce? Name the theorem that supports your answer.

1.



$m\angle A > m\angle D$
SSS

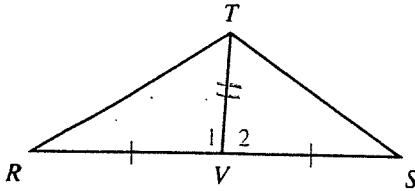
2.



$NO > JK$ SAS

3.

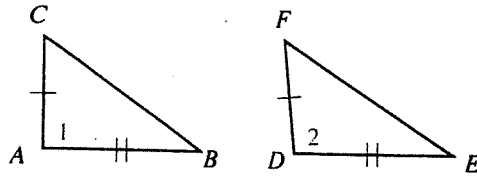
$m\angle 1 > m\angle 2$



$RT > TS$ SAS

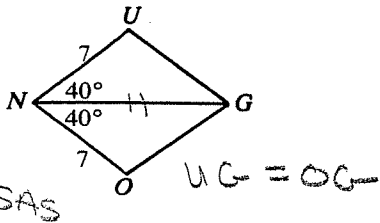
4.

$\angle 1$ is a rt. \angle ; $\angle 2$ is an obtuse \angle .



$EF > CB$ SAS

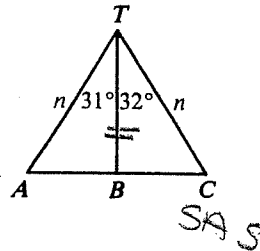
5.



SAS

$UG = OG$

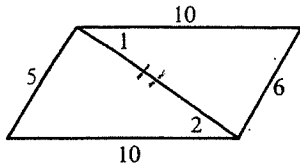
6.



$BC > AB$

SAS

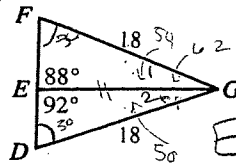
7.



SSS

$m\angle 1 > m\angle 2$

8.



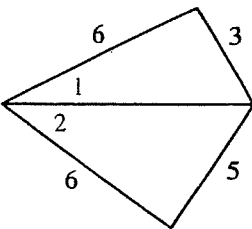
$EF > ED$
SAS

$m\angle F + m\angle 88 + m\angle 1 = m\angle D +$

$m\angle 1 = m\angle 2 + 4 \quad 92 = m\angle 2$

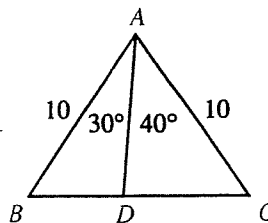
Complete each statement using $>$, $<$, or $=$.

9.



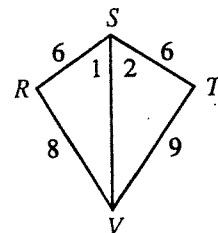
$m\angle 1 < m\angle 2$

10.



$CD > BD$

11.



$m\angle 1 < m\angle 2$

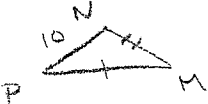
Determine whether the statement is always, sometimes or never true.

12. If $PN = RT$, $MN = RS$, and $m\angle N < m\angle R$, then $PM > ST$.

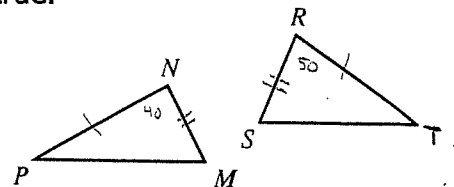
Never

13. If $PM = ST$, $MN = RS$ and $PN > RT$, then $m\angle M > m\angle S$.

Always



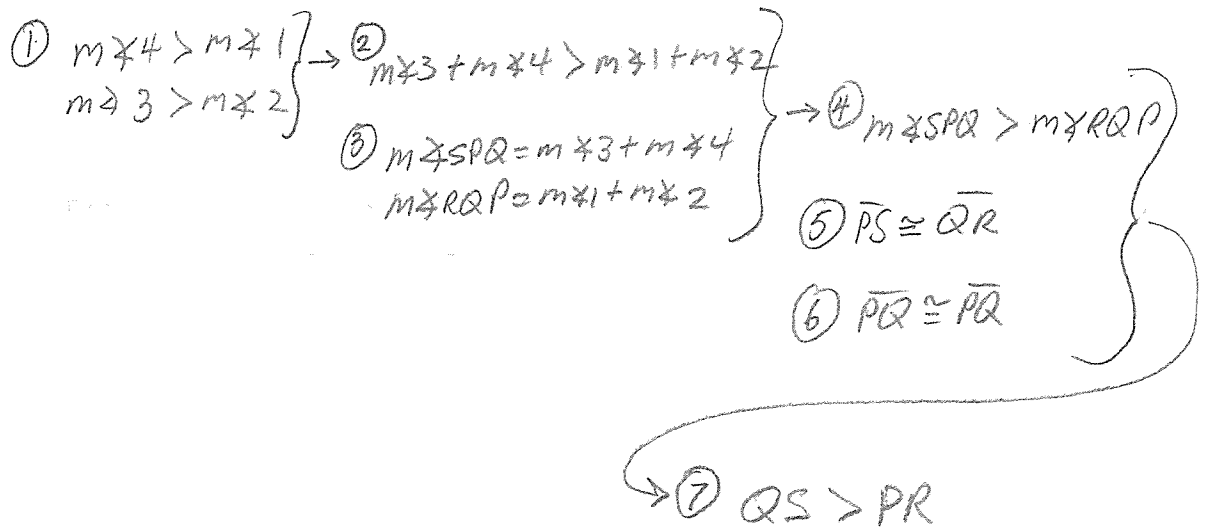
SSS



6.5 Proofs

○ #1 & #2 - SKIP, diagram is incorrect.

③



○ ① Given

② If $a > b$ and $c > d$, then $a + c > b + d$.

③ Angle Add. Postulate

④ Substitution

⑤ Given

⑥ Reflexive property

⑦ SAS Inequality thm.