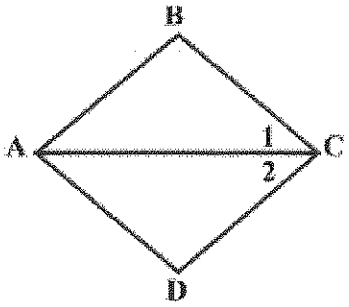
UNIT 5 – MORE TEST REVIEW Name _____ 2nd 3rd 4th

BE SURE TO STUDY YOUR QUIZZES!

Monday's Test (Calculator)

Tuesday's Test (Small Journal)



Given: $\overline{BC} \cong \overline{CD}$

$\overline{AC}$ bisects $\angle BCD$

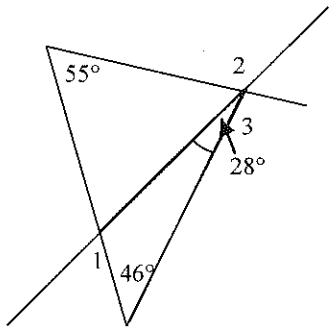
Prove: $\Delta ABC \cong \Delta ADC$

1. Find each measure: m∠1, m∠2, m∠3

$m\angle 1 =$ _____

$m\angle 2 =$ _____

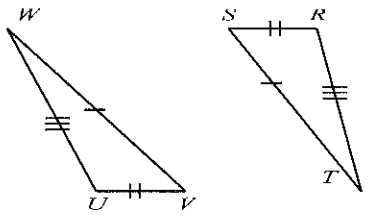
$m\angle 3 =$ _____



2. Identify the congruent triangles in the figure and state the reason.

ΔSRT ≅ _____ by

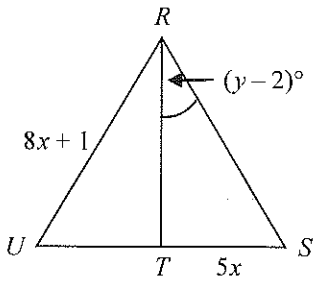
_____



3. ΔRSU is an equilateral triangle. $\overline{RT}$ bisects US. Find x and y.

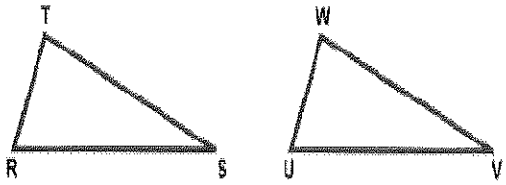
$x =$ _____

$y =$ _____



MULTIPLE CHOICE

_____ 4. In the figure shown $\overline{RT} \cong \overline{UW}$ a
Which additional information would be enough to prove that $\Delta RST \cong \Delta UVW$?



F. $\overline{RS} \cong \overline{ST}$

G. $\overline{RS} \cong \overline{UV}$

H. $\overline{ST} \cong \overline{VW}$

J. $\overline{ST} \cong \overline{UV}$

_____ 5. Given that $\Delta JUD \cong \Delta SON$

Which statement below is not necessarily true, based on the information above?

A. $\overline{JD} \cong \overline{SN}$

B. $\overline{UD} \cong \overline{ON}$

C. $\angle UDJ \cong \angle OSN$

D. $\angle D \cong \angle N$

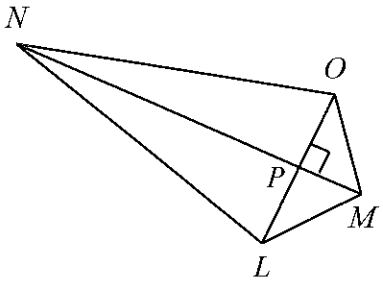
_____ 6. **Given:** P is the midpoint of OL and NM $\perp$ OL. Which of the following is a true statement?

F. $\Delta MOP \cong \Delta MLP$ by SSS

G. $\Delta MOP \cong \Delta MLP$ by ASA

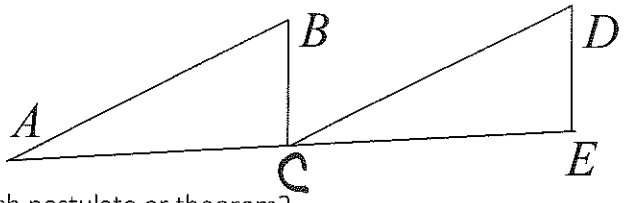
H. $\Delta NPO \cong \Delta NLP$ by SAS

J. $\Delta MOP \cong \Delta MLP$ by SAS



7. Given: $\Delta ABC \cong \Delta CDE$

Prove: $\overline{AB} \parallel \overline{CD}$



_____8.Given: $\overline{MN} \cong \overline{PO}$ and $\overline{MN} \parallel \overline{PO}$

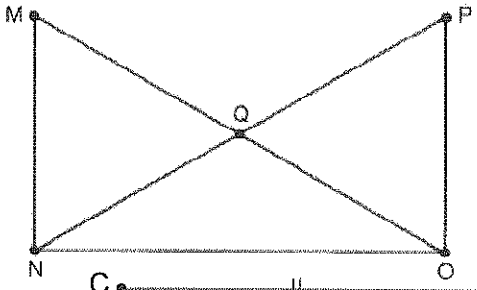
Is the statement ΔMNQ ≅ ΔOPQ true and if so, by which postulate or theorem?

A. No, they are not congruent

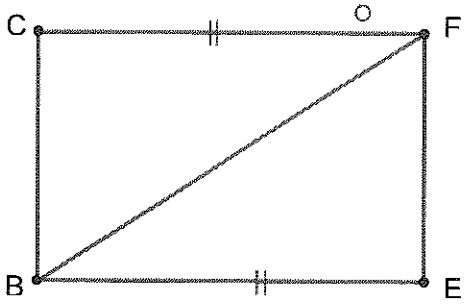
B. Yes, by ASA or AAS

C. Yes, by SAS

D. Yes, by SSS



_____ 9. Given: $\overline{CF} \parallel \overline{BE}$ and $\overline{CF} \cong \overline{EB}$



Is ΔFCB ≅ ΔBEF? If so, by what postulate or theorem?

F. Yes, by SSA

G. Yes, by SAS

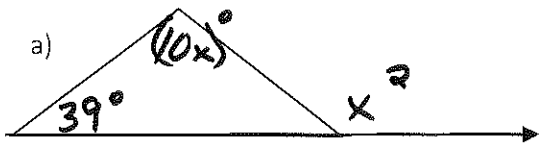
H. No they are not congruent

J. Yes, by SSS

10. The total distance from Keith's home to the office, then to the gym, and then home is 44 miles. The distance from his home to the office is 6 miles more than the distance from the office to the gym. The distance from the gym to the office is 2 miles less than the distance from the gym to his home.

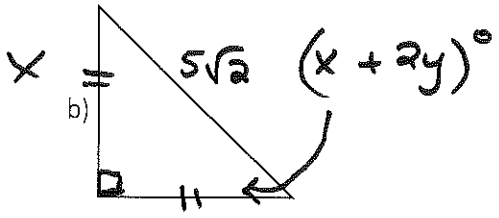
11. Find the value of x and y.

a)



x=_____

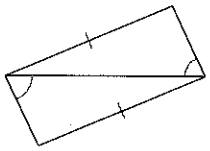
b)



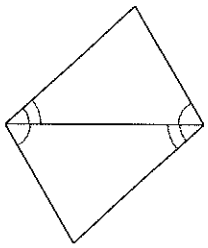
y=_____

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

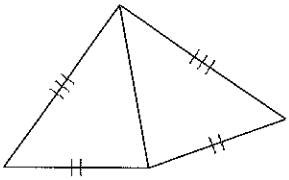
1)



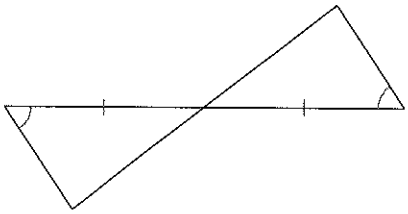
2)



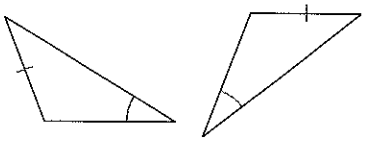
3)



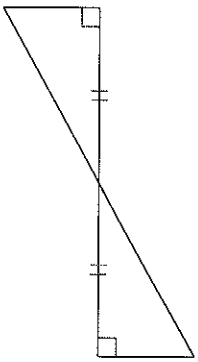
4)



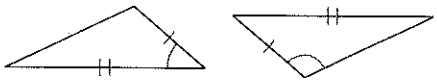
5)



6)



7)



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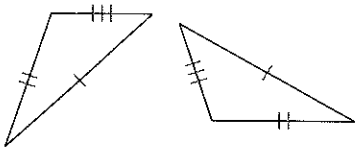

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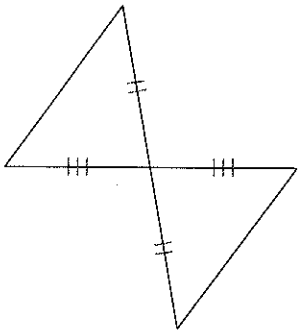
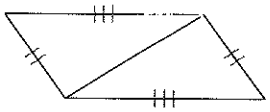


10)



11.