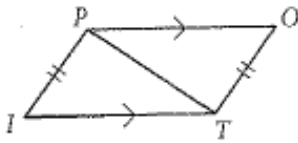


4.5-4.6 worksheet

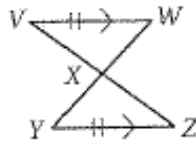
Name: _____

In exercises 1-6, name a triangle congruent to the given triangle and state the congruence conjecture. If you cannot show any triangles to be congruent from the information given, write "cannot be determined."

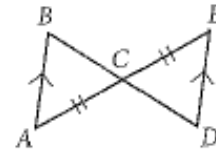
1. $\triangle PIT \cong \triangle$ _____



2. $\triangle XVW \cong \triangle$ _____



3. $\triangle ECD \cong \triangle$ _____

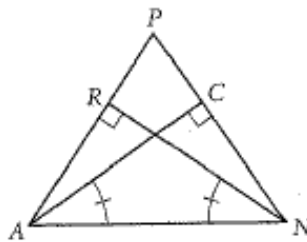


4. \overline{PS} is the angle bisector of $\angle QPR$.

$\triangle PQS \cong \triangle$ _____

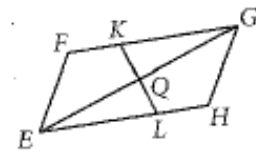


5. $\triangle ACN \cong \triangle$ _____



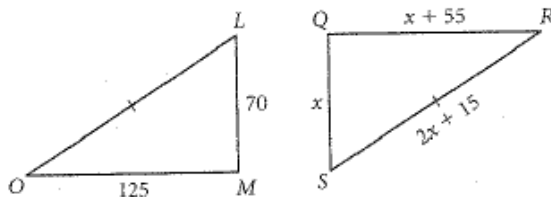
6. EFGH is a parallelogram.
 $GQ = EQ$.

$\triangle EQL \cong \triangle$ _____

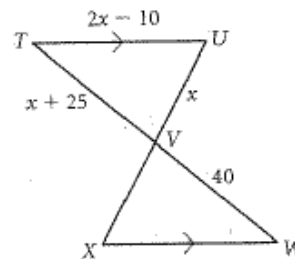


In exercises 7-8, answer the questions.

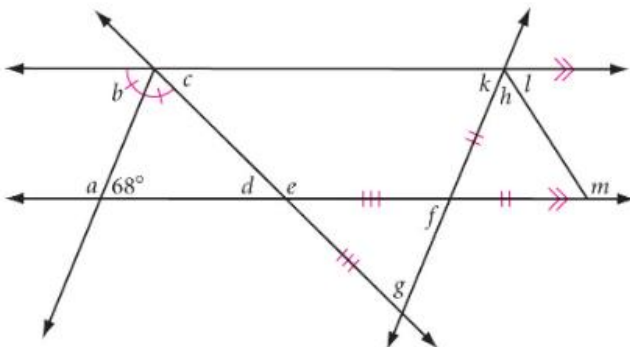
7. The perimeter of $\triangle QRS$ is 350 cm.
Is $\triangle QRS \cong \triangle MOL$? Explain.



8. The perimeter of $\triangle TUV$ is 95 cm.
Is $\triangle TUV \cong \triangle WXV$? Explain.



9. Find the measure of each lettered angle.

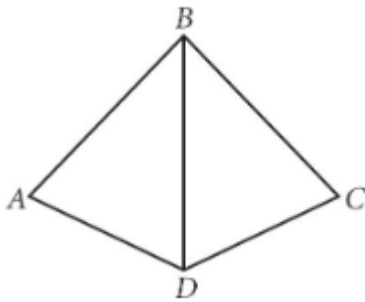


4.5-4.6 worksheet

Name: _____

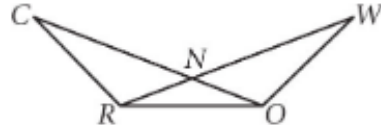
In the exercises below, answer the question about the segment or angle congruence and EXPLAIN WHY and what congruence shortcut you used! If there is not enough information, write cannot be determined.

1. $\angle A \cong \angle C$, $\angle ABD \cong \angle CBD$ Is $\overline{AB} \cong \overline{CB}$?



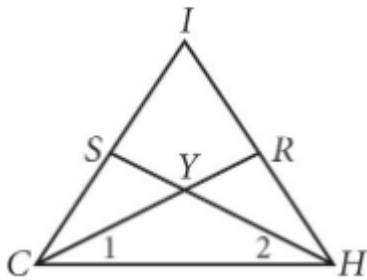
2. $\overline{CN} \cong \overline{WN}$, $\angle C \cong \angle W$

Is $\overline{RN} \cong \overline{ON}$? (h)



3. $\overline{CS} \cong \overline{HR}$, $\angle 1 \cong \angle 2$

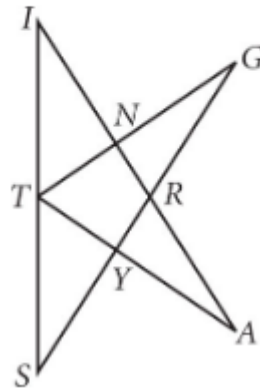
Is $\overline{CR} \cong \overline{HS}$?



4. $\angle S \cong \angle I$, $\angle G \cong \angle A$

T is the midpoint of \overline{SI} .

Is $\overline{SG} \cong \overline{IA}$? (h)



5. $\overline{BT} \cong \overline{EU}$, $\overline{BU} \cong \overline{ET}$

Is $\angle B \cong \angle E$? (h)

