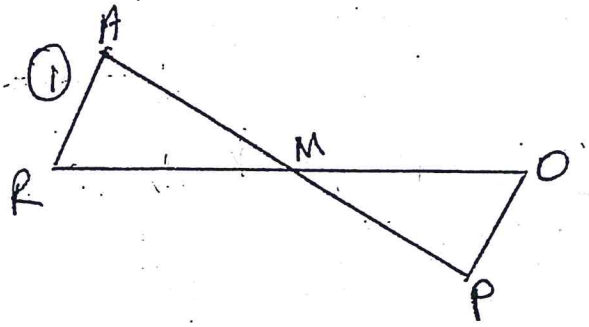
Geometry Worksheet

Chapter 5 Sections 2-4

Write on your own paper. Copy sketches and add congruence marks based on information given.

Determine from the information given if the triangles are congruent. State the conjecture which tells you the triangles are congruent.

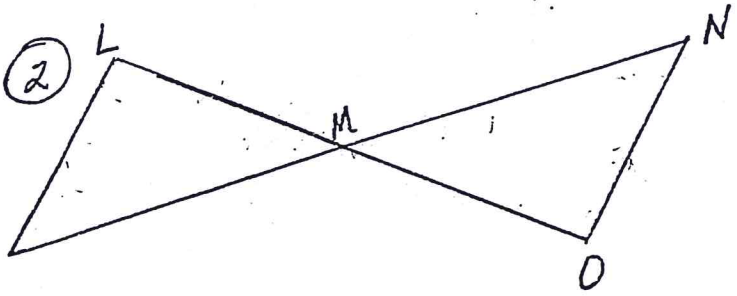
(1)



M is the midpoint of RO.

$\triangle RAM \cong \triangle$ ____

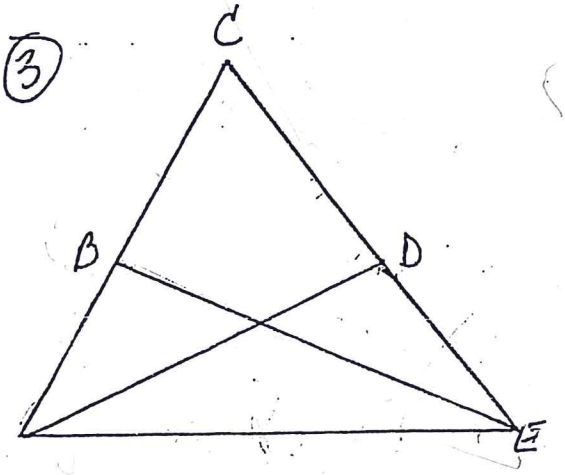
(2)



$\overline{KL} \parallel \overline{NO}$ and M is the midpoint of LO.

$\triangle KLM \cong \triangle$ ____

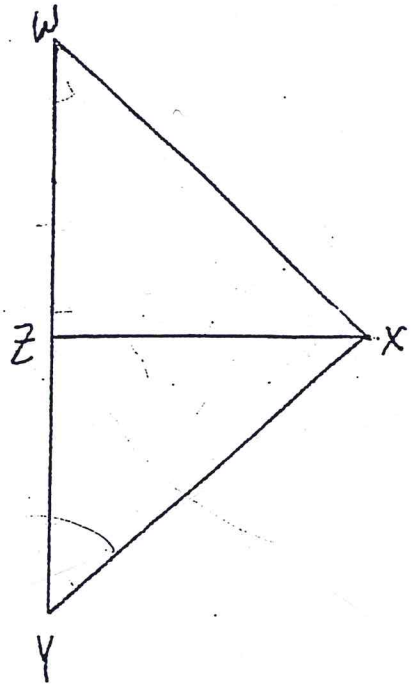
(3)



$\triangle ACE$ is isosceles. $\overline{AE}$ is the base. BE and AD are medians.

$\triangle ABE \cong \triangle$ ____

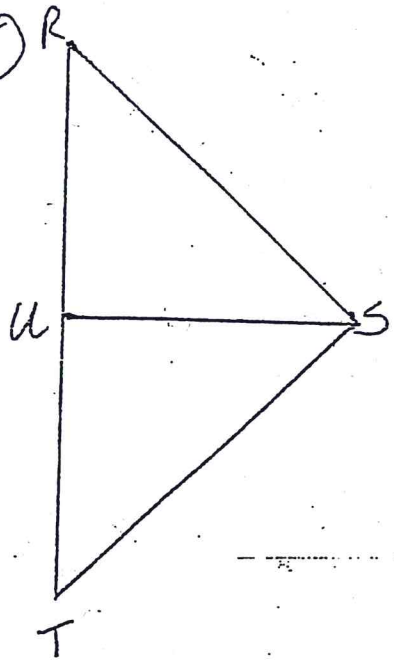
(4)



$\overline{WY} \perp \overline{ZX}$, $\triangle WXY$ is isosceles with $\angle X$ as the vertex angle.

$\triangle WXZ \cong \triangle$ _____

(5)

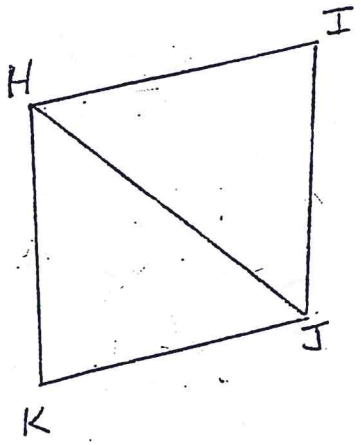


$\triangle RST$ is isosceles. ($\angle S$ is the vertex)

U is the midpoint of $\overline{RT}$.

$\triangle RUS \cong \triangle$ _____

(6)



HIJK is a paralellogram.

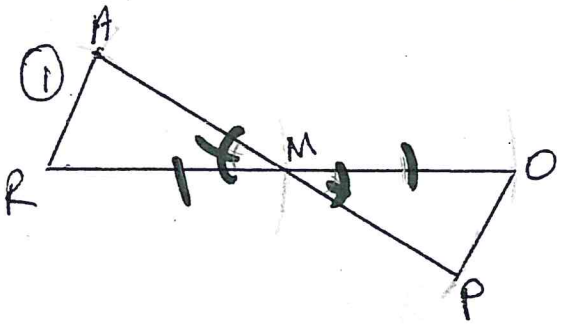
$\triangle HKJ \cong \triangle$ _____

Geometry Worksheet
Chapter 5 Sections 2-4

Key

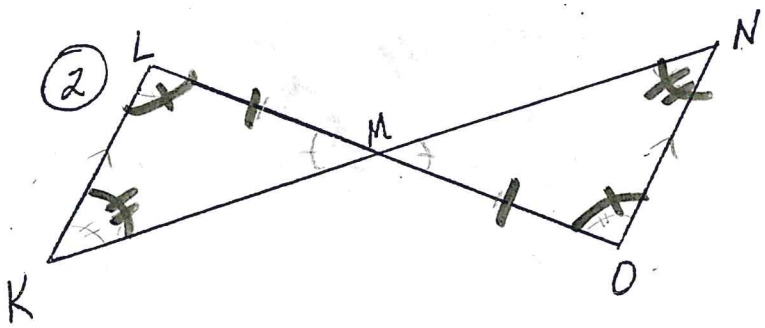
Write on your own paper. Copy sketches and add congruence marks based on information given.

Determine from the information given if the triangles are congruent. State the conjecture which tells you the triangles are congruent.

① 

M is the midpoint of RO.

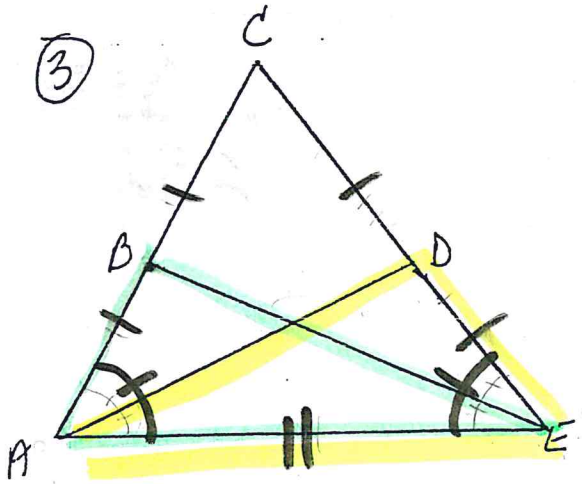
$\triangle RAM \cong \triangle$ CBD — cannot be determined

② 

$\overline{KL} \parallel \overline{NO}$ and M is the midpoint of LO.

$\triangle KLM \cong \triangle$ NOM

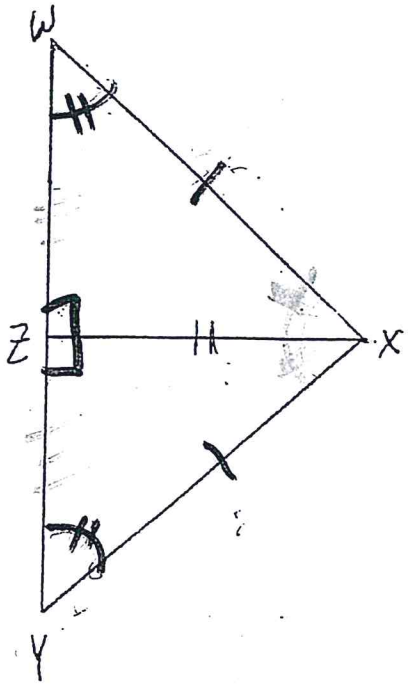
ASA or SAA
SAA

③ 

$\triangle ACE$ is isosceles. $\overline{AE}$ is the base. BE and AD are medians.

$\triangle ABE \cong \triangle$ EDA

SAS

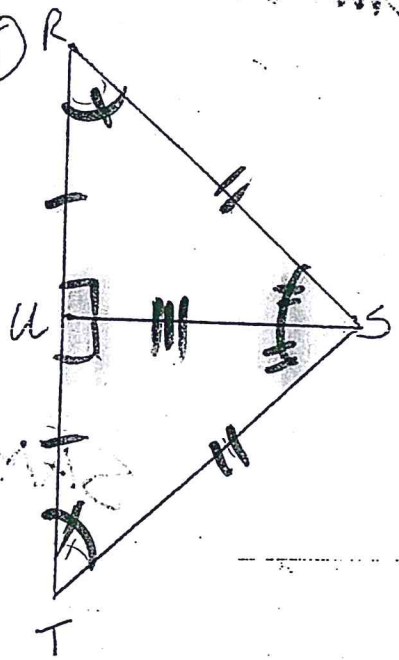


$\overline{WY} \perp \overline{ZX}$, $\triangle WXY$ is isosceles with $\angle X$ as the vertex angle.

$\triangle WXZ \cong \triangle$ YXZ

SAS

(5)

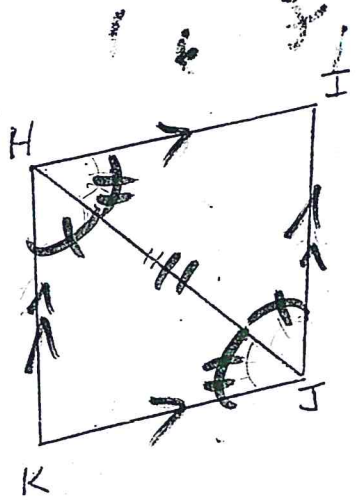


$\triangle RST$ is isosceles. ($\angle S$ is the vertex.)

U is the midpoint of $\overline{RT}$.

$\triangle RUS \cong \triangle$ TUS SAS, SSS any cong.

(6)



HIJK is a parallellogram.

$\triangle HKJ \cong \triangle$ JIH

ASA