ΓCBD
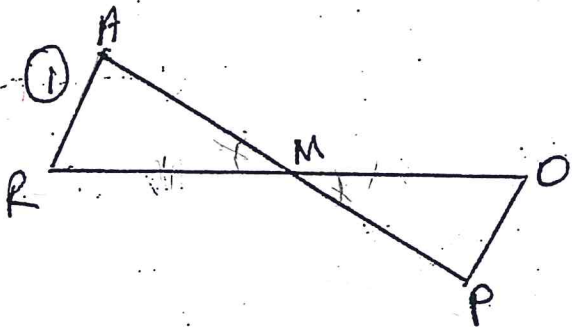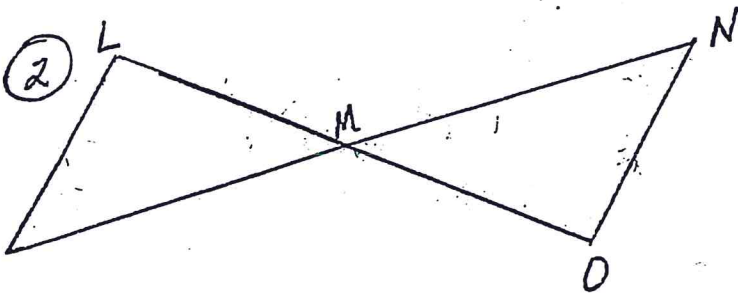
Geometry Worksheet

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
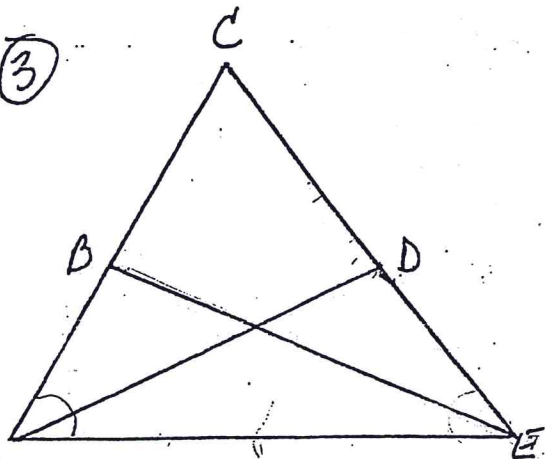conjecture which tells you the triangles
are congruent.

①

M is the midpoint of RO.

$\triangle RAM \cong \triangle$ _____.

②

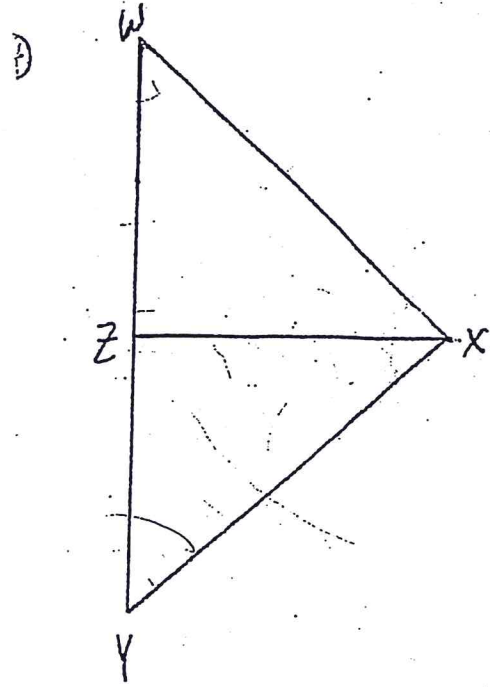$\overline{KL} \parallel \overline{NO}$ and M is the
midpoint of LO.

$\triangle KLM \cong \triangle$ _____

③

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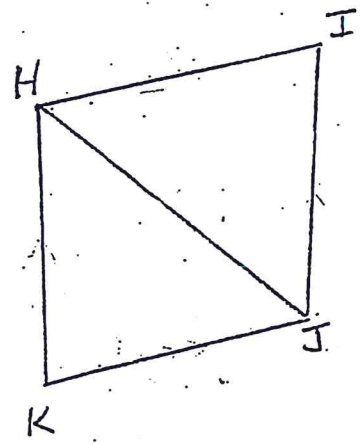BE and AD are medians.

$\triangle ABE \cong \triangle$ _____

1)

$\overline{WY} \perp ZX$, $\triangle WXY$ 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 $\overline{RT}$.
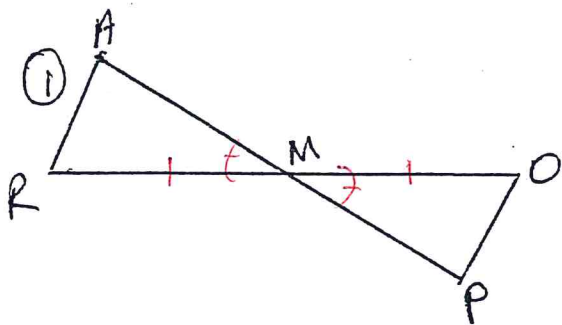
$\triangle RUS \cong \triangle$ ____

6)

$HIJK$ is a paralellogram.

$\triangle HKJ \cong \triangle$ _____
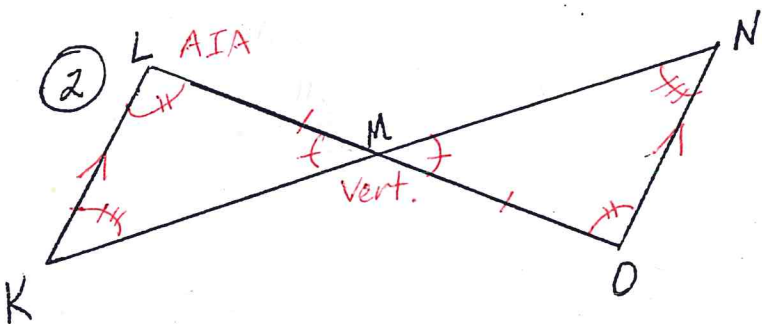
Geometry Worksheet

Chapter 5   Sections 2-4

key   Write on your own paper.
Copy sketches and add
congruence marks based on
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Determine from the information given if the
triangles are congruent. State the
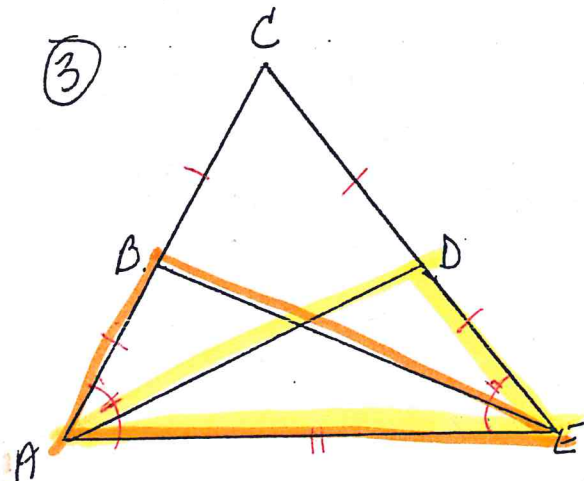conjecture which tells you the triangles
are congruent.

①

M is the midpoint of RO.

$\triangle RAM \cong \triangle$ _____ *Cannot be determined*
                              not enough info

② L   *AIA*

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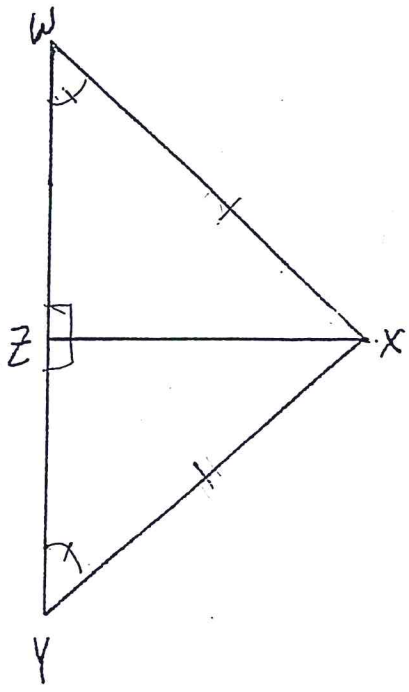
$\overline{KL} \parallel \overline{NO}$ and M is the
midpoint of LO.

$\triangle KLM \cong \triangle$ *NOM*   *AAS or ASA*

③

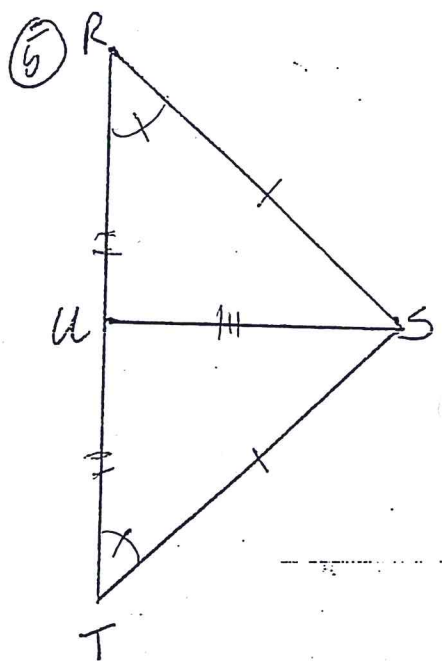$\triangle ACE$ is isosceles. $\overline{AE}$ is the base.
BE and AD are medians.

$\triangle ABE \cong \triangle$ *EDA*   *SAS*

)

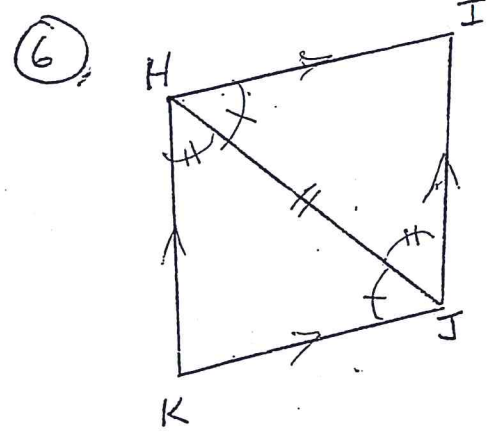$\overline{WY} \perp \overline{ZX}$, $\triangle WXY$ is isosceles with $\angle X$ as the vertex angle.

$\triangle WXZ \cong \underline{\triangle YXZ}$ AAS

any reason is OK because of C-28

⑤

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

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

$\triangle RUS \cong \triangle \underline{TUS}$ SAS or SSS   any reason is OK because of C-28

⑥

HIJK is a paralellogram.

$\triangle HKJ \cong \triangle \underline{JIH}$ (ASA)