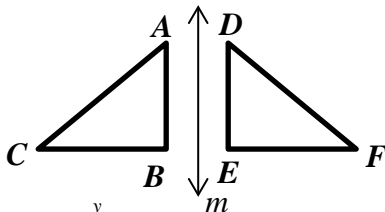




Corresponding Parts of Congruent Figures (PAGE 1)

If two figures are congruent, their corresponding sides are congruent and their corresponding angles are congruent. For instance, in the figure below, triangle ABC is congruent to triangle DEF because $\triangle DEF$ is the image of $\triangle ABC$ reflected over line m .

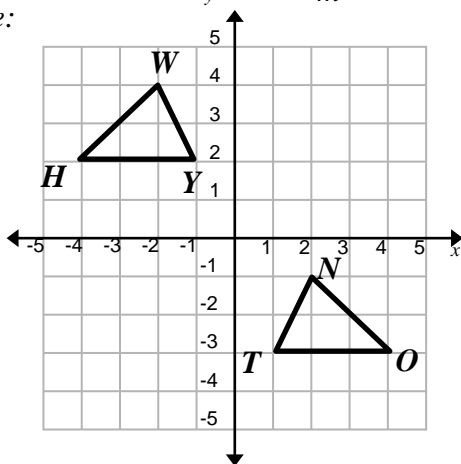
$$\triangle ABC \cong \triangle DEF$$



Congruent Sides:
 $\overline{AB} \cong \overline{DE}; \overline{BC} \cong \overline{EF}; \overline{CA} \cong \overline{FD}$

Congruent Angles:
 $\angle A \cong \angle D; \angle B \cong \angle E; \angle C \cong \angle F$

Example:



$\triangle WHY \cong \triangle NOT$ because one triangle maps on top of the other. The transformations that show this: reflect $\triangle WHY$ over the y-axis and then translate 5 units down.

Therefore, congruence statements can be written:

$$\overline{WH} \cong \overline{NO}; \overline{HY} \cong \overline{OT}; \overline{WY} \cong \overline{NT}$$

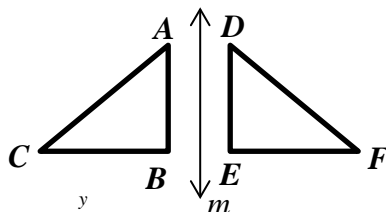
$$\angle W \cong \angle N; \angle H \cong \angle O; \angle Y \cong \angle T$$



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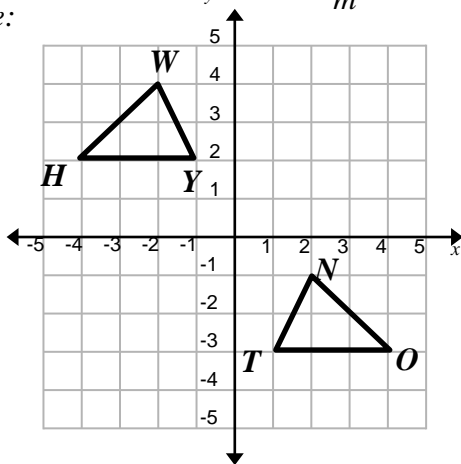
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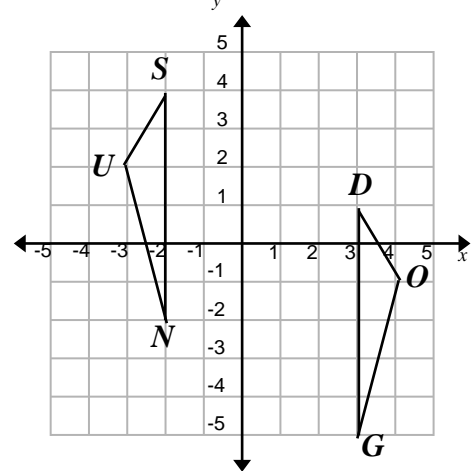
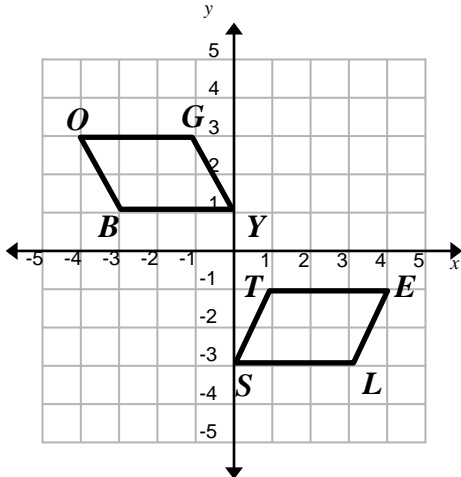
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Corresponding Parts of Congruent Figures (PAGE 2)

For the following figures: (1) list the transformations that map one figure onto the other; (2) determine which angles and sides of the figures correspond; (3) write the congruence statements.



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