

- 1. Name the plane represented by the back of the box WME
 - 2. Name the intersection of WR and MW

 - 4. Which two planes intersection to form CW?
 - 5. Which two segments intersect at point E?
 - 6. Name another point coplanar with points E, B, and H.

Chapter 9: Transformations

Transformation:
Change in position, shape, or size of an object.

Rotation

Reflection (Flip)

Dilation

Preimage: The original figure

Image: The figure after a transformation

Isometry: When preimage and image are congruent (same size and shape)

Does each transformation appear to be an isometry?

1. Preimage



Image



No, Because they're Changed 513e

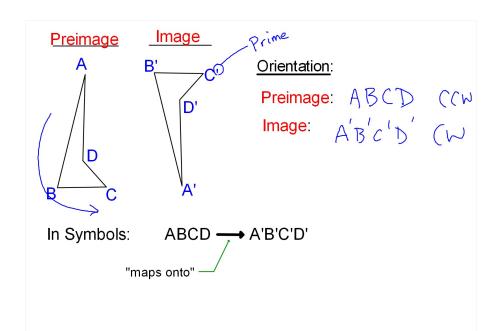
2. Preimage

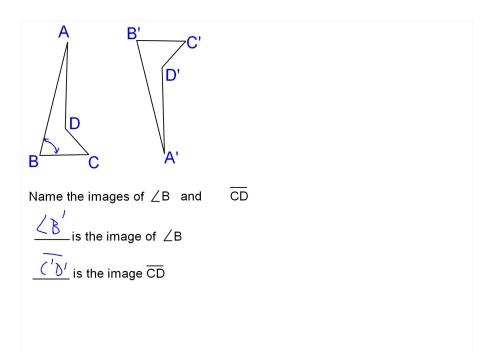


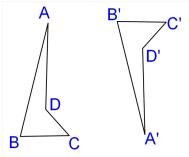
Image



Yes, they are reflections of each other





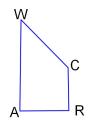


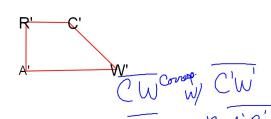
List the part that corresponds to each:

- 1. $\overline{A'B'}$ correpsonds to \overline{AB}
- 2. D corresponds to _____

The blue figure is the preimage and the red figure is the image.

Place the letters in the proper location on the image.





List two pairs of corresponding sides AR oxispands AR and one pair of corresponding angles.

Section 9-1:

Translation: A slide.

All points on the preimage are mapped the same distance and the same direction.

The size and orientation remain unchanged.

A translation in symbols looks like this:

$$(x,y) \longrightarrow (x + 1, y - 4)$$

In words this means:

△EFG has the following coordinates:

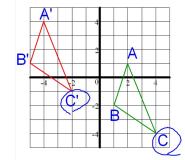
$$E(4,9) F(-7,1) G(0,3)$$

△ EFG is translated according to the following:

$$(x,y) \longrightarrow (x-4, y+11)$$

State the coordinates of the image.

= (0,20) F (-1,12) G (-4,14) Write a rule to describe this translation



6 left and 3 up

$$(x,y) \longrightarrow (x-6,y+3)$$

Write a rule to describe the following translation.

$$(x,y) \rightarrow (x-16,y+7)$$

another example

You can now complete Hwk #1.

You'll need a sheet of graph paper

Correction to Hwk #1 problems.

Hwk #1 is due on Friday

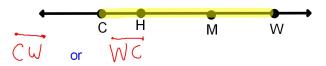
Segments, Rays, Parallel Lines, Sec 1-4 and Planes

Segment: Part of a line that has two endpoints (no arrows)

Stating the two endpoints, in any order, Named by:

with the symbol for a segment above the letters.

Example: Name the segment highlighted below.



Ray:

Part of a line that has one endpoint and continues forever in one direction (one arrow)

Stating the the endpoint first then any other Named by:

letter in the direction of the ray with the symbol

for a ray above the letters.

Name the two rays highlighted below. Example:

