



Name: _____

Date: 2/28/19

Per: 5

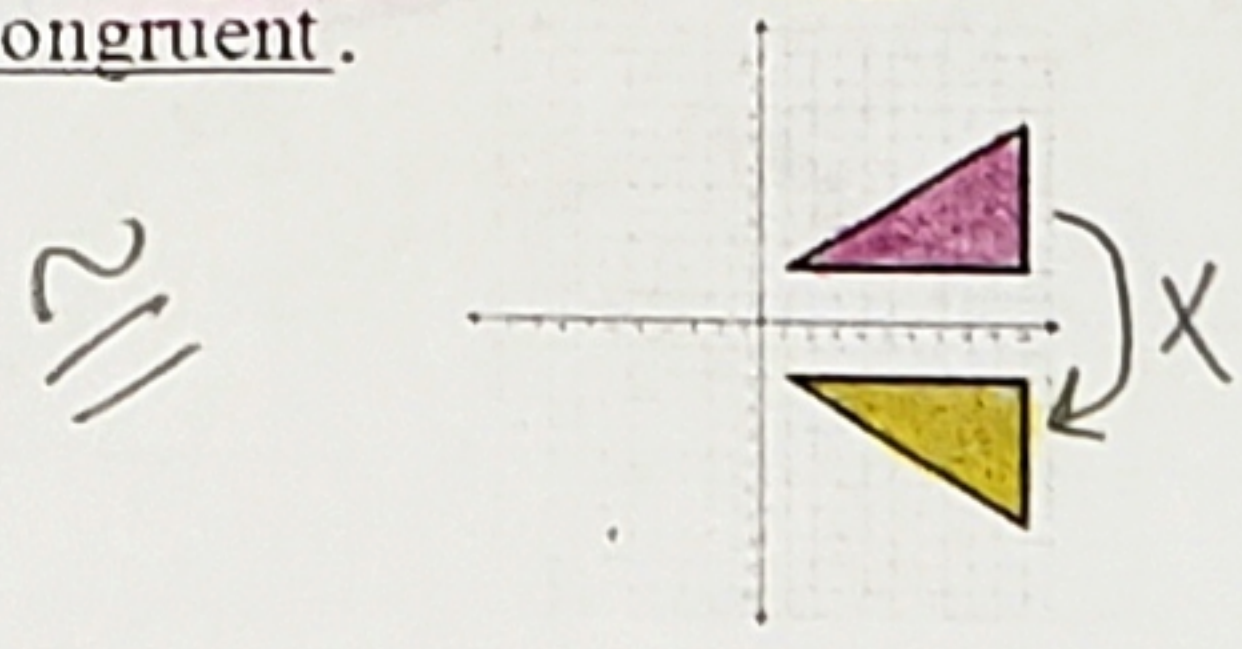
IM2 - (7.1a Notes) Similarity: Transformation Review & Intro to Dilation

Review

Congruence & Similarity with Transformations

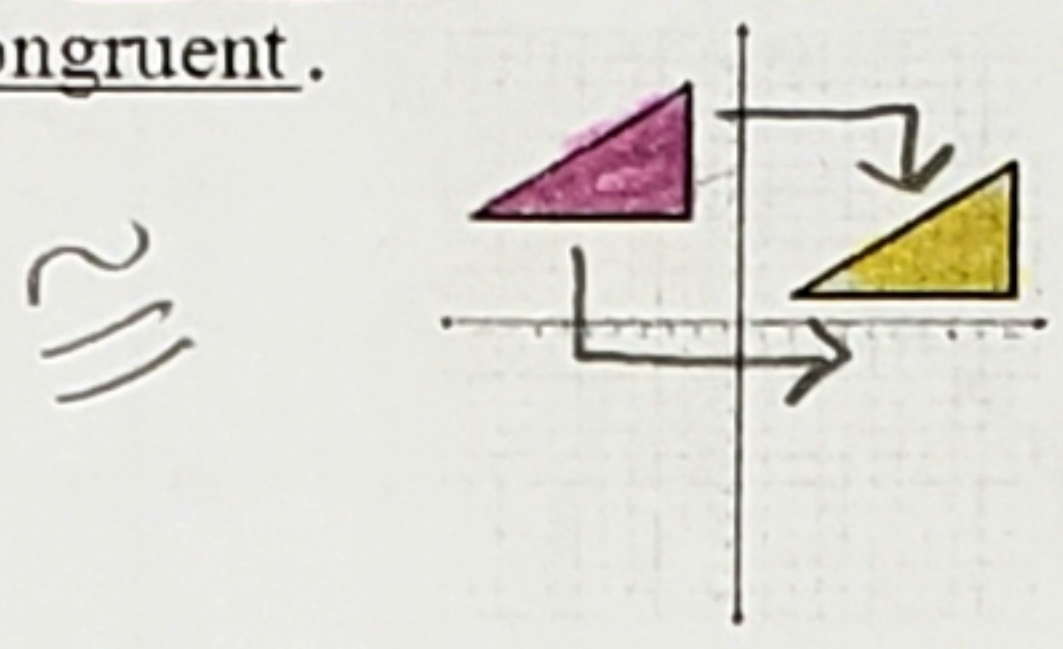
Reflection *Flip*

The pre-image and its image are congruent.



Translation *Slide*

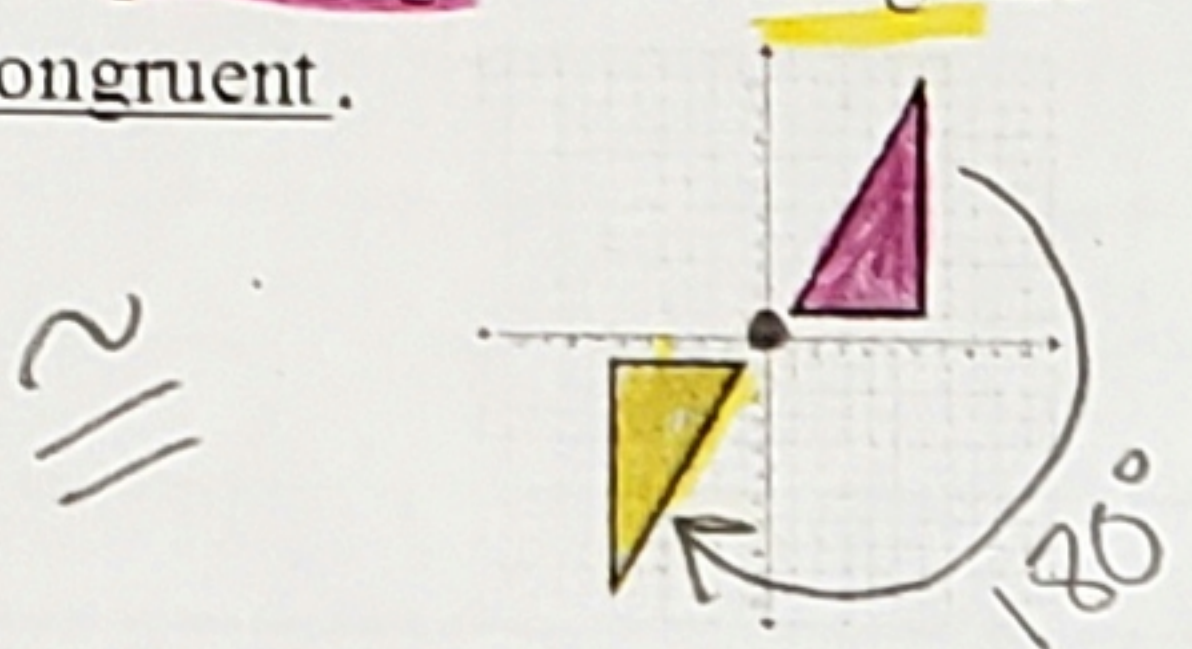
The pre-image and its image are congruent.



*Up
Down
Left
Right*

Rotation *Spin*

The pre-image and its image are congruent.



Dilation

The pre-image and its image are similar.



*Same
Shape,
Different
Size*

Key Terms

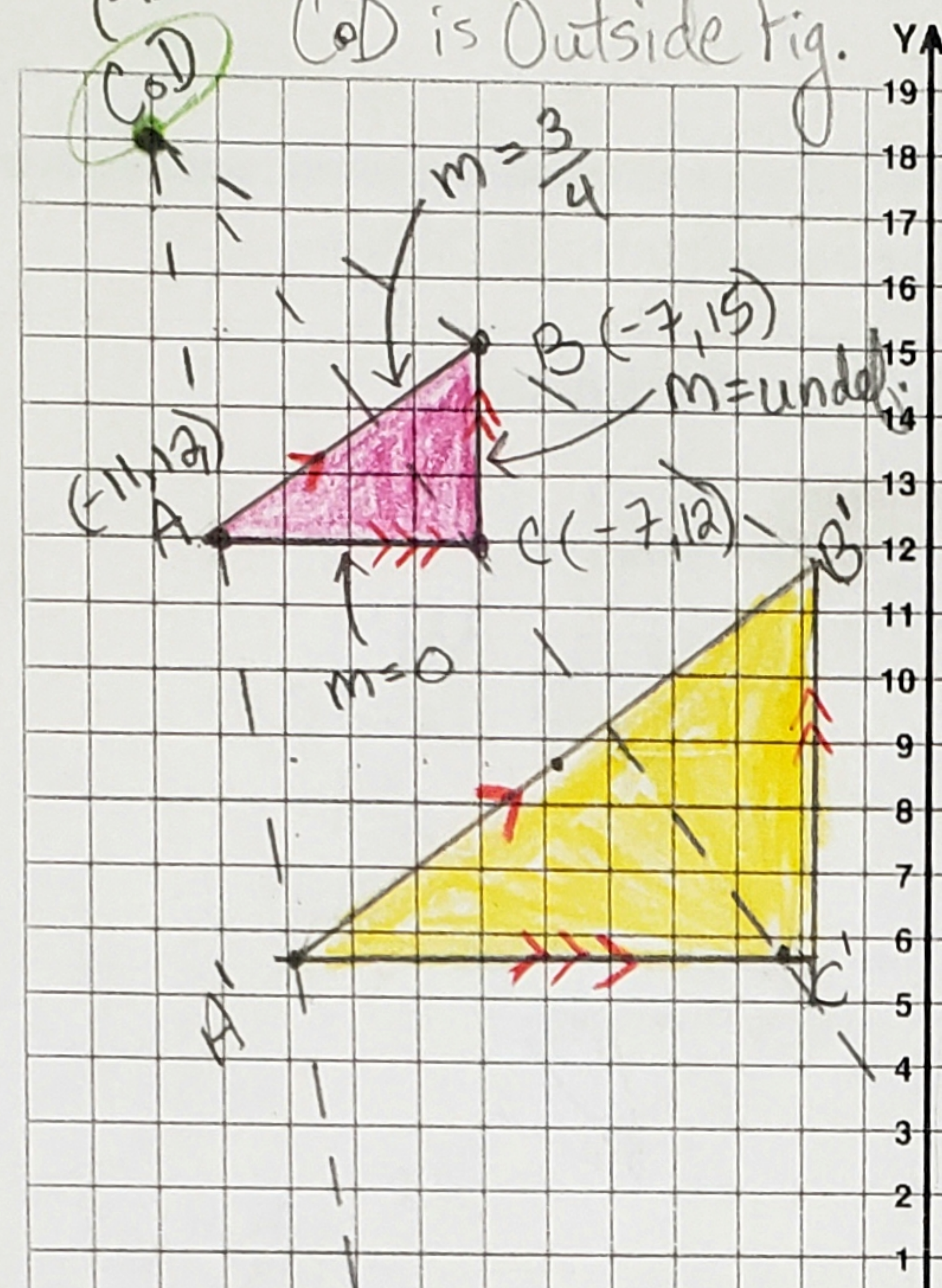
- Transformation - A movement of a geometric figure.
 - Translation (\cong) - Transformation that "slides" each point of a figure the same distance in the same direction.
 - Reflection (\cong) - A transformation that "flips" a figure over a mirror or reflection line (or axis).
 - Rotation (\cong) - A transformation in which a figure is turned around a point (center or rotation).
 - Dilation (Same Shape, Different Size) - A transformation of a figure in which the figure stretches or shrinks with respect to a fixed point, the center of dilation.
 - Similar Figures - Geometric figures produced by dilation in which all corresponding angles are congruent and all corresponding sides are proportional. *ratio w/ the same value*
 - Center of Dilation - The point of intersection of lines through each pair of corresponding vertices in a dilation.
- Image - The figure after a transformation.
- Pre-Image - The original figure.
- Scale Factor - The value of the dilation in which the ratios of all corresponding side lengths are equal.

$\frac{1}{4} = \frac{3}{12}$ Scale: 3

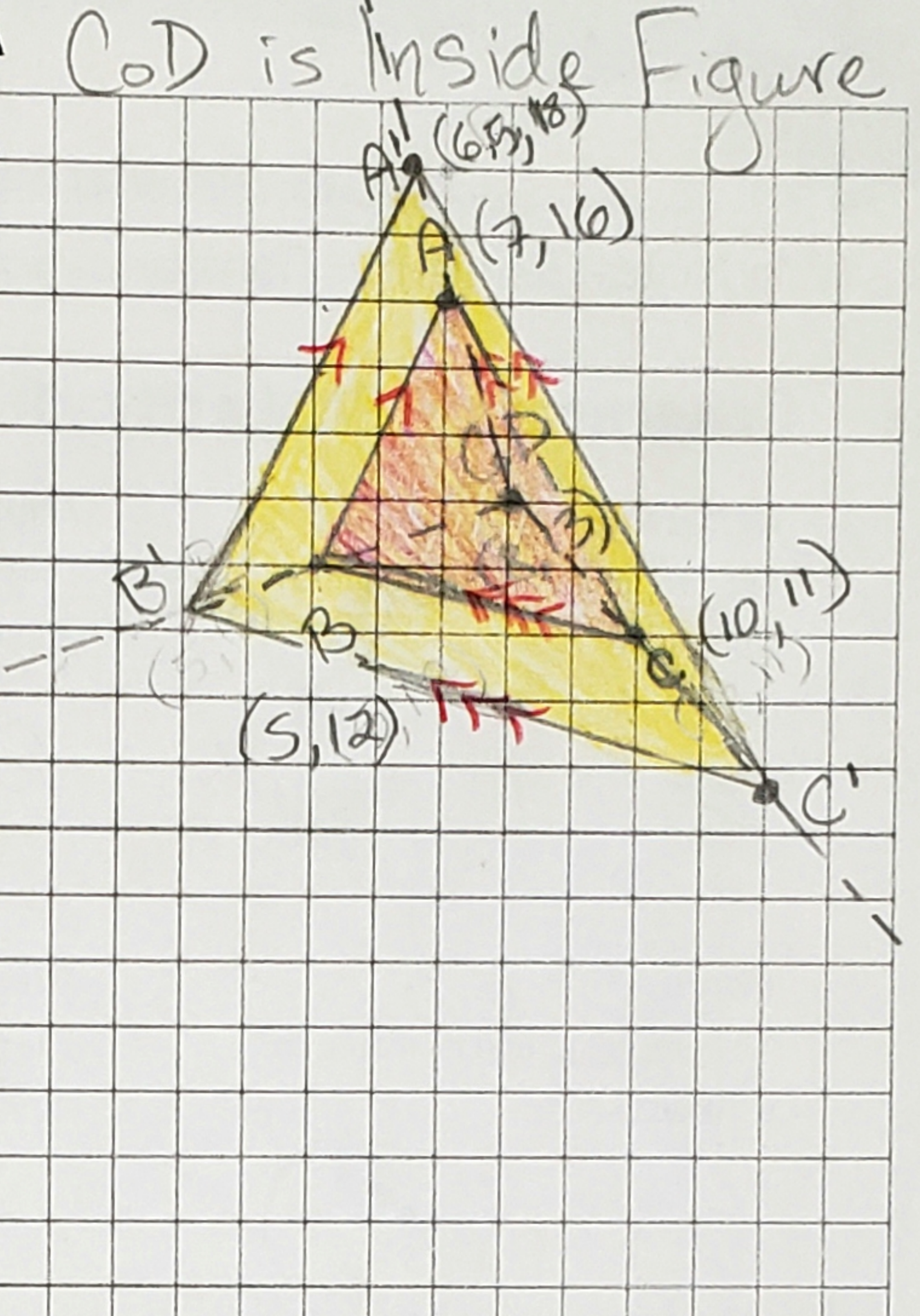
 - Enlargement - An increase in size of all dimensions in the same proportions.
 - Reduction - A decrease in size of all dimensions in the same proportions.

$(-12, 18)$
CoD

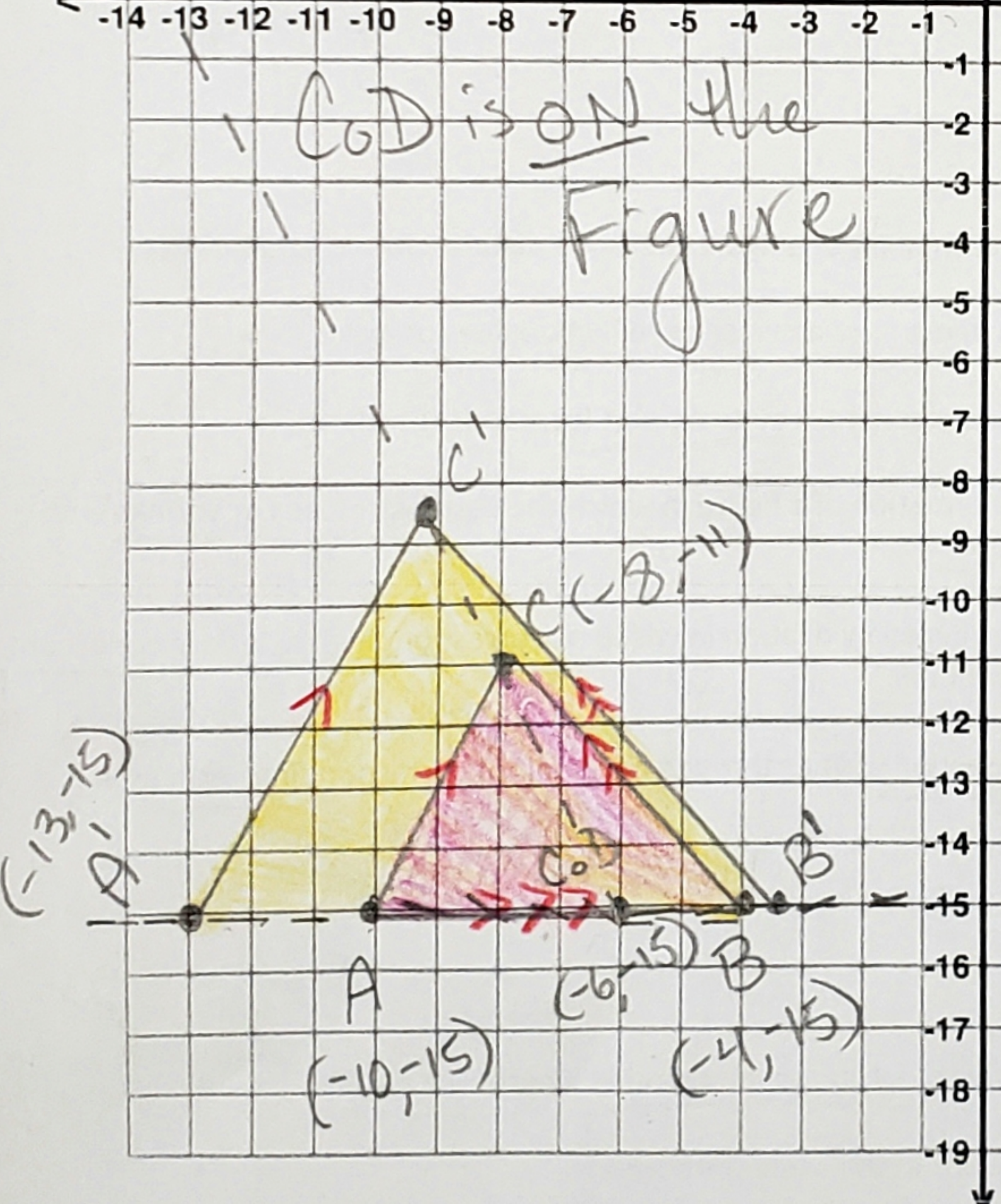
CoD is Outside Fig.



CoD is Inside Figure



CoD is ON the Figure



CoD/A CoD on the Vertex

