Warm-up 4/26/15

what point is three units up from (4,3)? (4,6)

- three right of (-2,4) (1,4)
- five down from (5,2) (5,-3)
- two down & 4 left of (0,0) (-4,-2)

Checking Review Pkt today!

4/26 Transformations

Changing a set of points in a particular way

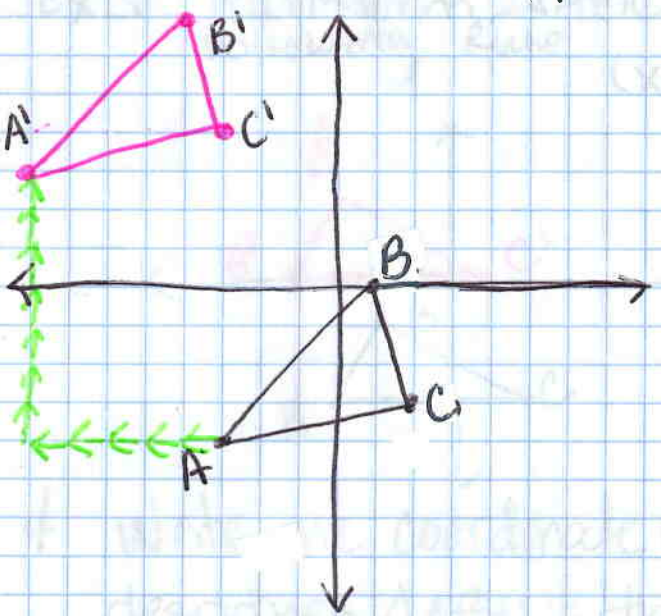
- Translation
  - move shape
  - no size change
  - no rotation
- Rotation →
  - Turning shape at an angle from a point
- Reflections →
  - flip over a line
- Dilations - size change
- Combos

Translations

adding or subtracting the same values to the coordinates.
moves shape to another location.

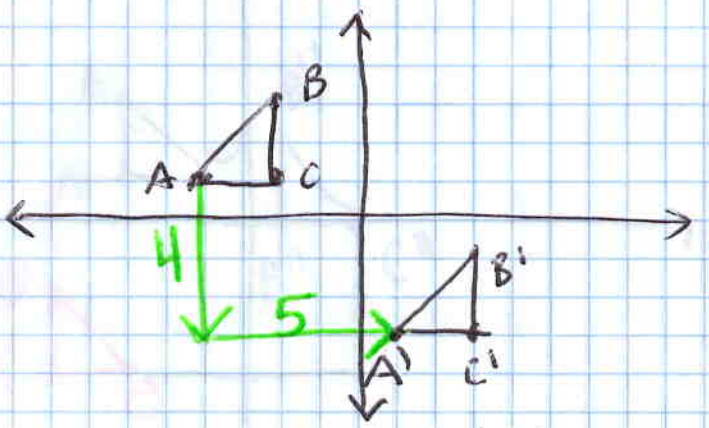
New Shape Name
Same letters with an apostrophe
$\triangle ABC \rightarrow \triangle A'B'C'$
(A prime, B prime, C prime)

EX 1 translate up 7, left 5



Rules
$(x, y) \rightarrow (x-5, y+7)$

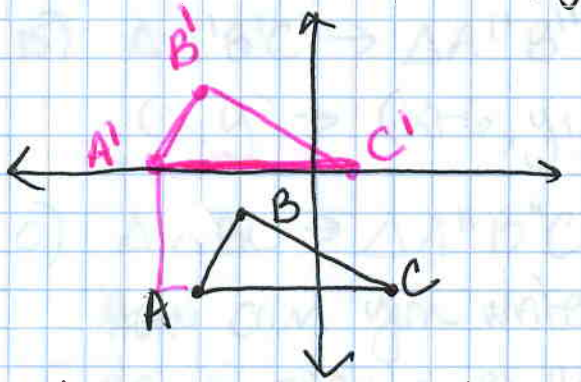
Ex2 Describe How $\Delta A'B'C'$ was transformed.



$\Delta A'B'C'$ is down 4 and Right 5 units.

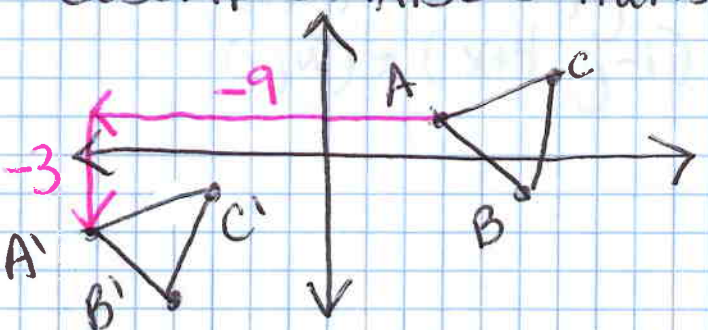
$(x, y) \rightarrow (x+5, y-4)$

Ex3 Transform ΔABC using the following Rule $(x, y) \rightarrow (x-1, y+3)$

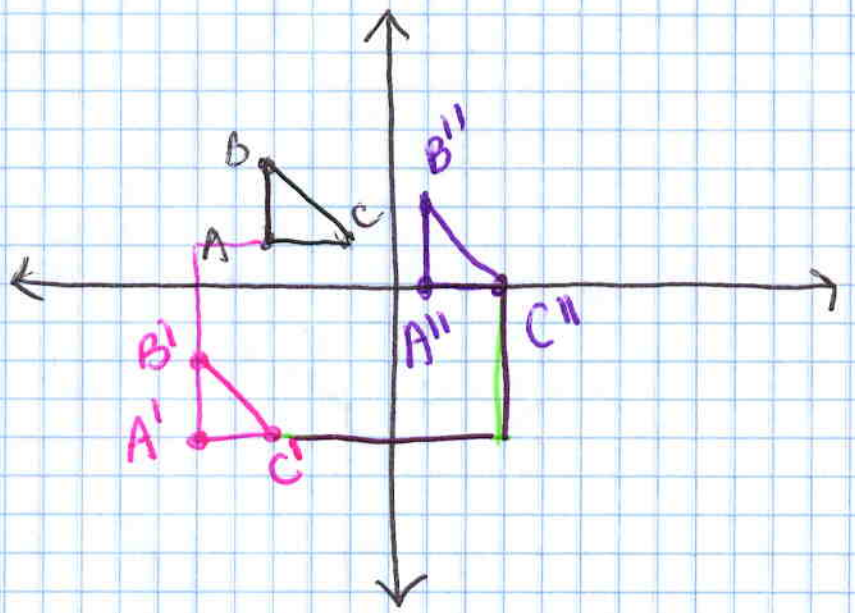


4 Write the coordinate rule that describes ΔABC's transformation

$(x, y) \rightarrow (x-9, y-3)$



Ex5 $\triangle ABC$



a) $\triangle ABC \rightarrow \triangle A'B'C'$

$(x, y) \rightarrow (x-2, y-5)$

B) $\triangle A'B'C' \rightarrow \triangle A''B''C''$

$(x, y) \rightarrow (x+6, y+4)$

c) $\triangle ABC \rightarrow \triangle A''B''C''$

How can you write this as a single rule?

$(x, y) \rightarrow (x-2, y-5)$

$(x, y) \rightarrow (x+6, y+4)$

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

add the changes