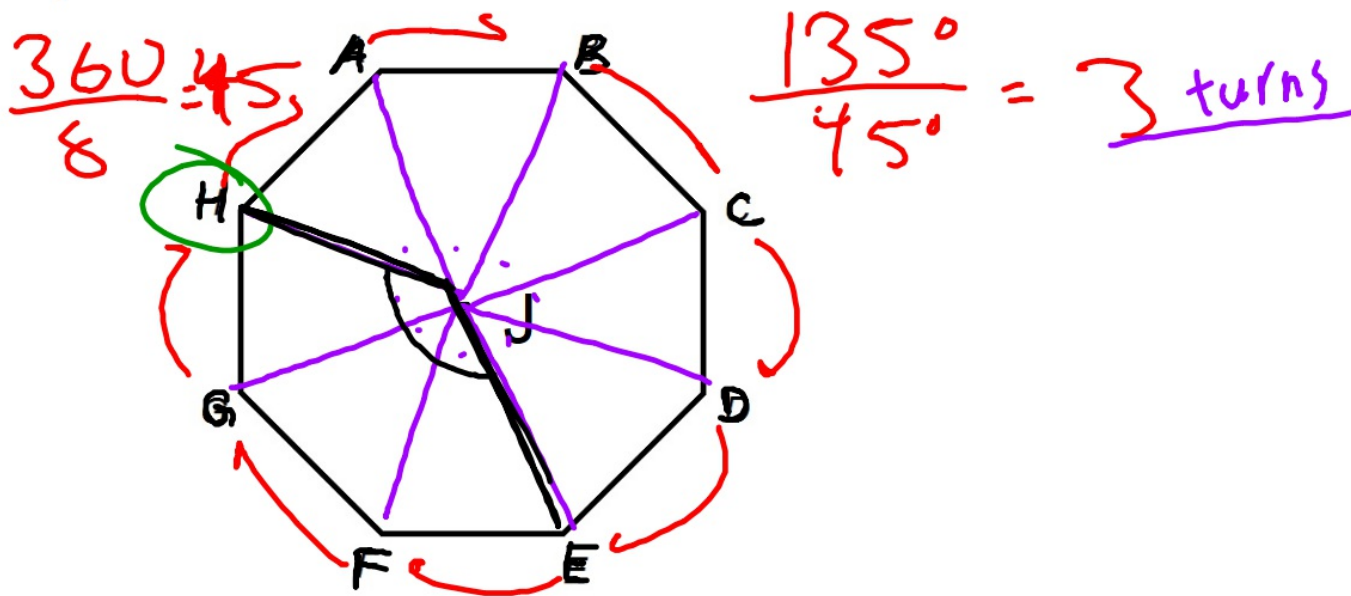


Good afternoon: warm up in notebooks

If the octagon is rotated 135° CW about J, where will point E be carried onto?

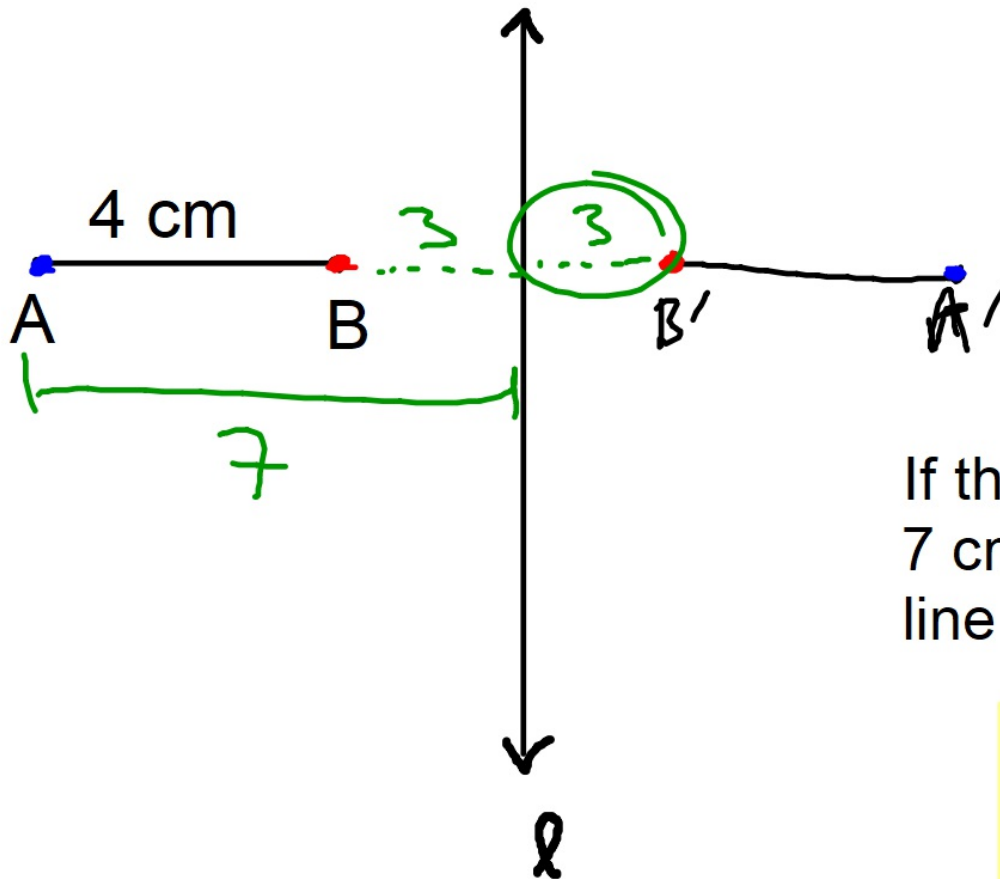


Reminders:

- projects due in 1 week
- retakes: Tues 4-5p or any DS but Weds. (ask me for DS pass)
- Next assessment: Thursday/Friday
 - symmetry (previous video)
 - sequencing rigid motions (tonight's video)
 - mechanics of rigid motions (today's lesson)
 - 1 review topic (either CO-A2 or CO-A5)

The mechanics of transformations

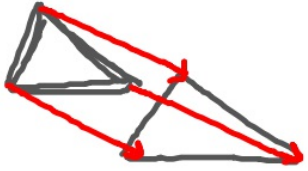
NOTES



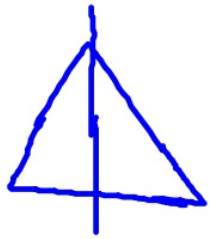
\overline{AB} is reflected across line l to form $\overline{A'B'}$

If the distance from line l to A is 7 cm, what is the distance from line l to B' ?

Translations: points slide along a vector (direction and magnitude)
all points move the same amount, in the same direction
(each vector is parallel and congruent)
always results in new figure (unless vector is 0)



Reflections: points move to same distance from reflection line, on opposite side



some points move farther than others
line of reflection is midpoint between image and pre-image
may not result in 'new' figure if reflection line is a
line of symmetry

Rotations: points move along circular arcs centered at center of rotation
with different radii
points closer to center of rotation move smaller distances
may not result in 'new' figure if it has rotational symmetry

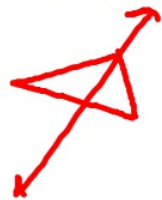
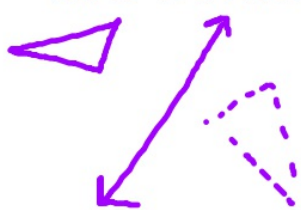
True or False:

In a translation, some points move farther than others.



F; the vectors are \cong .

If a line of reflection does not pass through a figure, then there are some points that will not change position.



False

If a triangle is rotated around one of its vertices, then only the other 2 will change position. **T**



Project Update

Device? go to bit.ly/geoproj17

No device? Answer these on a piece of nb paper

1. Name
2. Block
3. Theme?
4. Picturebook, Poster, or Digital Slideshow?
5. New photos, old photos, or sketches?
6. Estimate your completion percentage 0-100%
7. Which of these have you done?
8. Are you enjoying the project?
9. Questions/concerns?

- Found/written accurate, reasonable definitions of each term
- Taken (or selected or drawn) most/all of my pictures
- Outlined the geometric part of the pictures/drawings
- Started putting items together into a product
- I've done none of these so far

HW: notes on video
mgeo.weebly.com