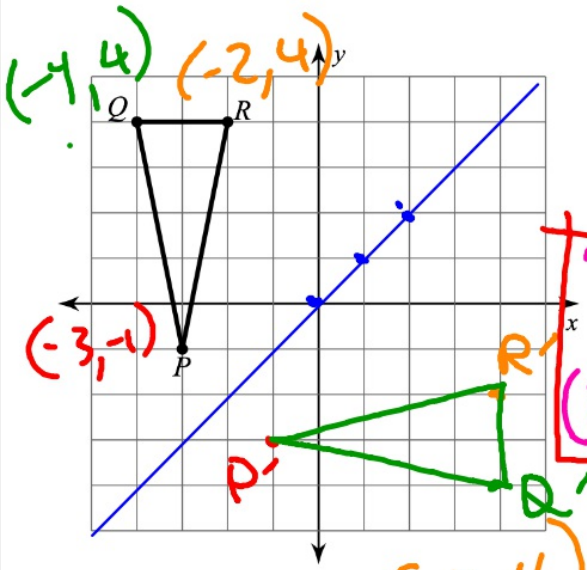
Good morning: attach warm up

1. Reflect △QRP across the line y=x.



(-4, 4) (-2, 4) (-3, -1)

y = 1x + 0

slope y-int

Rule

(x, y) → (y, x)

R' P' Q'

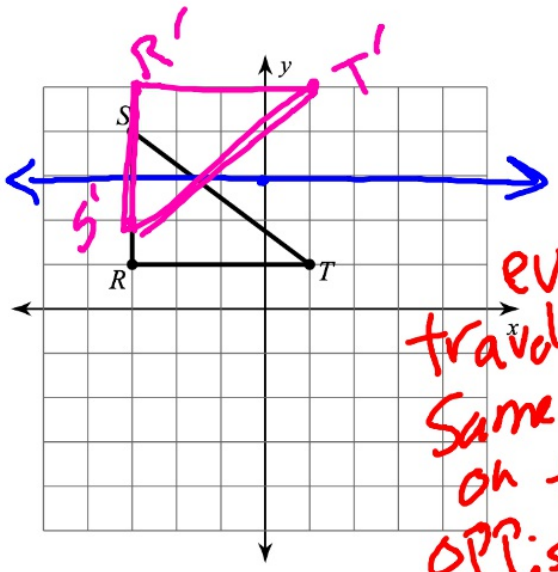
(-2, 4) → (4, -2)

(-3, -1) → (-1, -3)

(-4, 4) → (4, -4)

Assessment: next class

2. Reflect △TRS across the line y=3.



R' T' S'

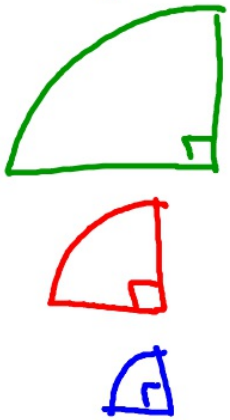
every pt. travels the same dist. on the opposite side of refl. line

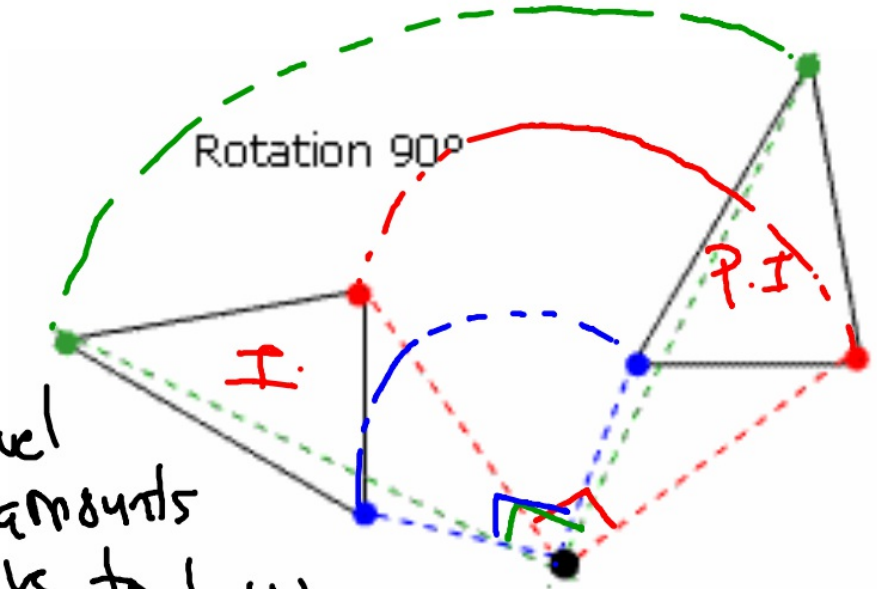
Hint: y=# is a horizontal line
x=# is a vertical line

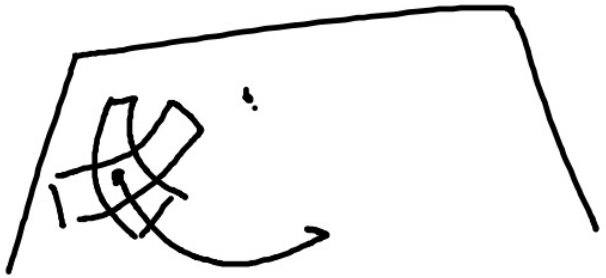
What questions do you have about reflections and translations?

Rotations

a rotation is a turn around a fixed center through a specified angle in a specified direction

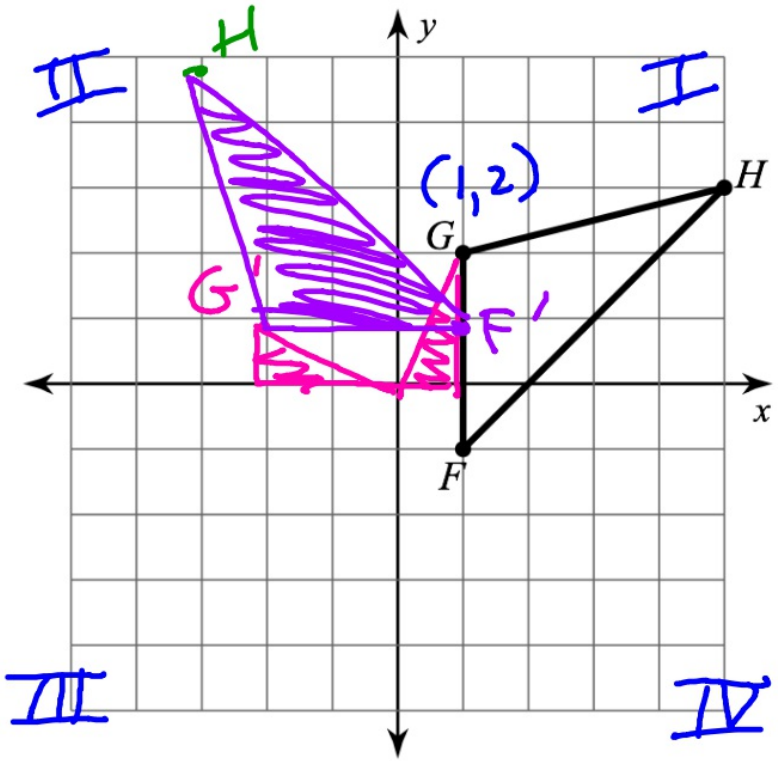






Points travel different amounts relative to how far they are from center... but every pt. travels the same degree around a circle

1) rotation 90° counterclockwise about the origin



Rule:

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

$(1,2) \rightarrow (-2,1)$

$(5,3) \rightarrow (-3,5)$

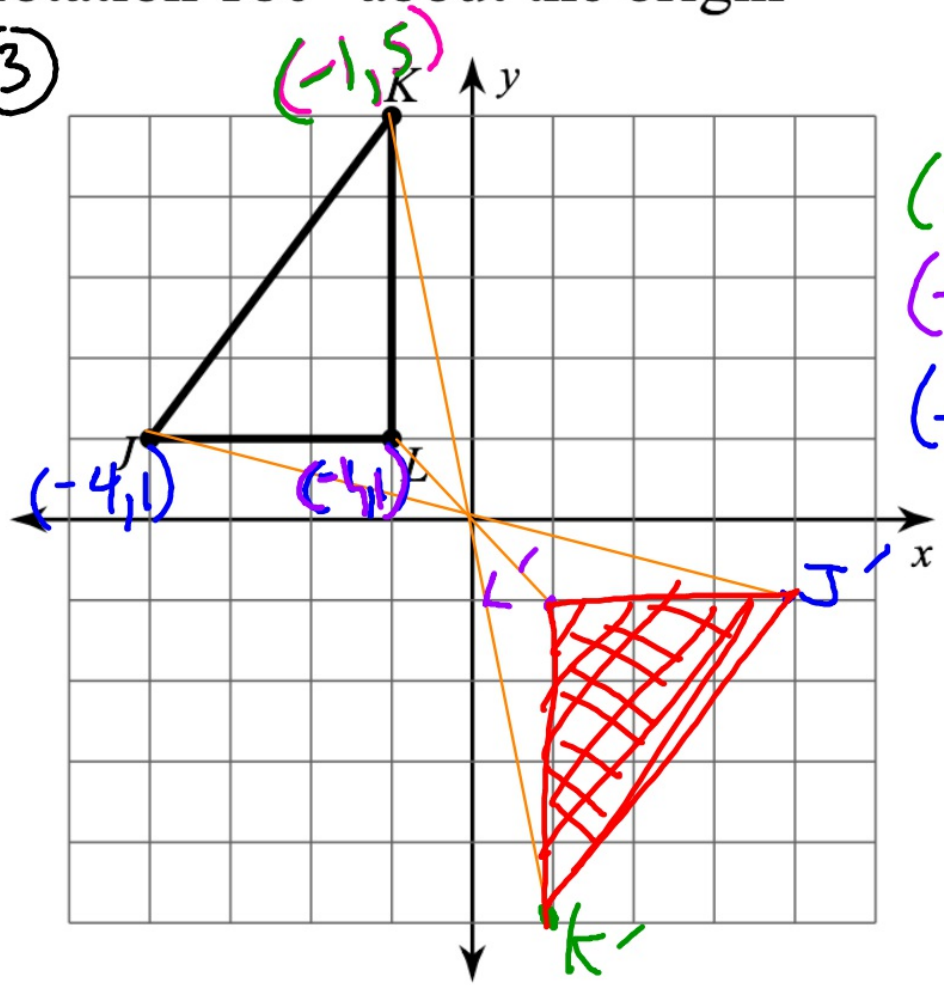
$(1,-1) \rightarrow (1,1)$

think + slopes

[redacted]

rotation 180° about the origin

③



Rule:

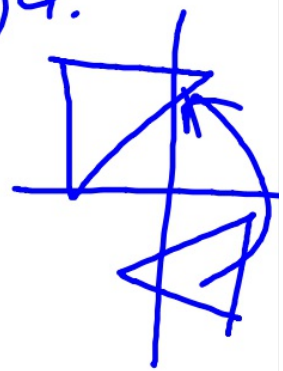
(x,y) → (-x,-y)

(-1,5) → (1, -5)

(-1, 1) → (1, -1)

(-4, 1) → (4, -1)

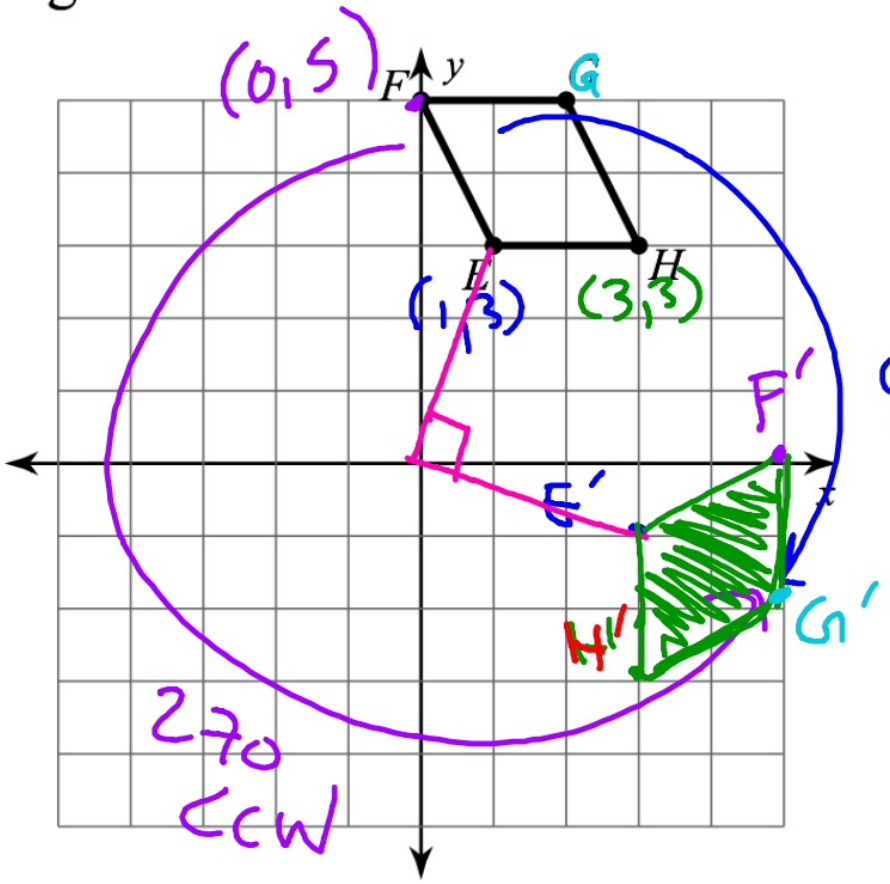
4.



[redacted]

5)

rotation $270°$ counterclockwise about the origin



Rule:

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

$(1,3) \rightarrow (3,-1)$

$(3,3) \rightarrow (3,-3)$

90 $(2,5) \rightarrow (5,-2)$

CW $(0,5) \rightarrow (5,0)$

1

$-1 \cdot 0 = 0$

[redacted]

What will be on tomorrow's assessment?

- 3 problems where you draw the transformation
- 3 problems where you identify the transformation

In other words, exactly like the last/tonight hw :)