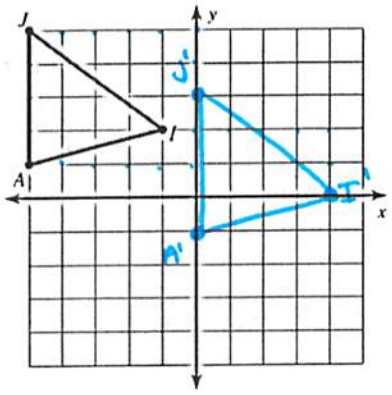
Winston 8/2/18

1.2 Translations & Rules Guided Notes **Geometry**

anslations – A transformation that slides each point of a figure the same distance and in the same direction

1) Translate ΔJAI to the ~~left~~ right five units and ~~up~~ down two units.



2) Write a rule for this transformation.

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

3) What ordered pair represents J'?

(0, 3)

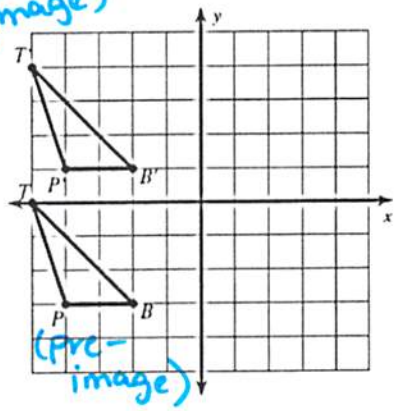
4) What translation has occurred in the figure?

up 4 units

* ID image & pre-image

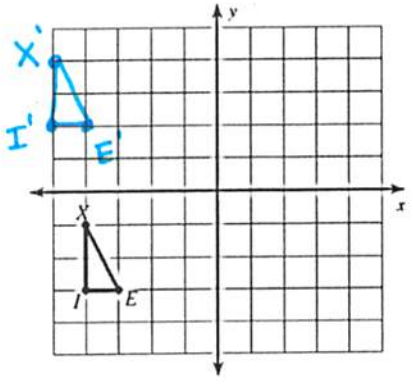
5) What is the rule that represents this translation?

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



6) If (x, y) → (x – 1, y + 5) represents a translation for ΔXEI, describe the translation.

Left 1 & up 5 units



7) What would X' be after the rule is applied?

(-5, 4)

Transformation Notes:

- Image - result of transformation
- Pre-image - figure before transformation

$(x, y) \rightarrow {}'(-y, x)$

↑ Pre-image ↑ image