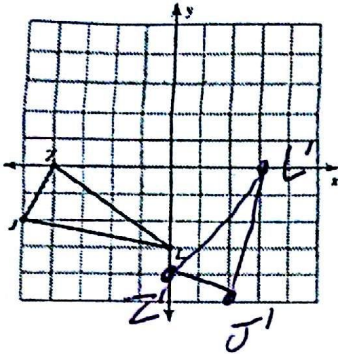
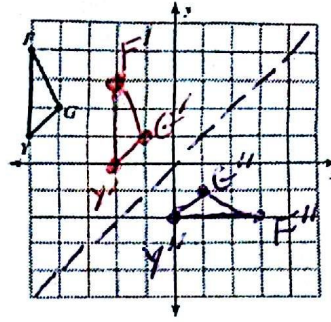


Graph the image of the figure using the transformation given.

1) rotation 90° counterclockwise about the origin

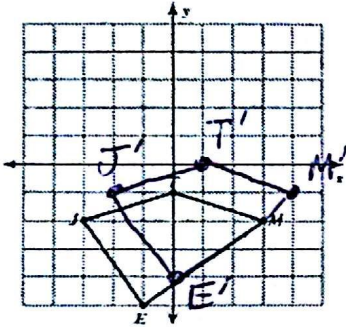


2) $T(3, -1)$, then Reflect across $y = x$

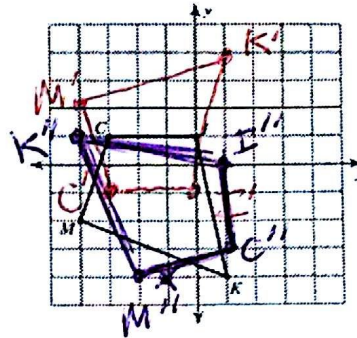


Handwritten: $T_{y\text{-axis}}$

3) translation: 1 unit right and 1 unit up



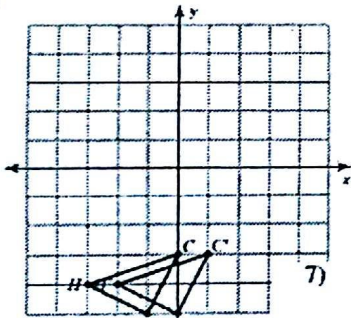
4) Reflect across the x-axis, then rotate 90°



Handwritten: R_{270°

Write a rule to describe each transformation.

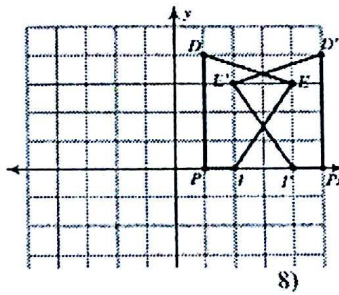
5)



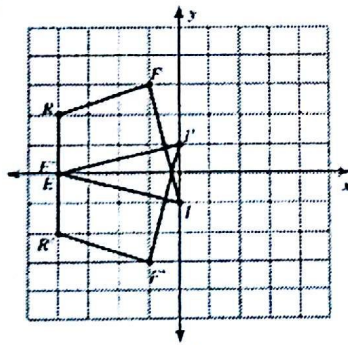
Handwritten: translate left 1

Rule: $(x, y) \rightarrow (x-1, y)$

6)

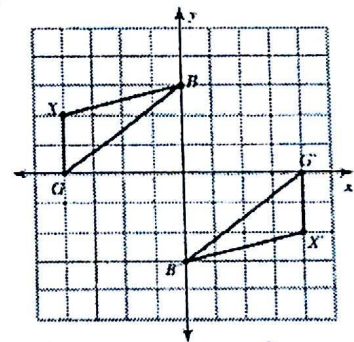


Handwritten: reflect across $x=3$
} No rule I gave, so this is fine.



Handwritten: reflect across x-axis

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



Handwritten: Rotate 180°

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

Part you A

- 1. Tr
- 4. Re
- 7. Ro
- 10. R

The top

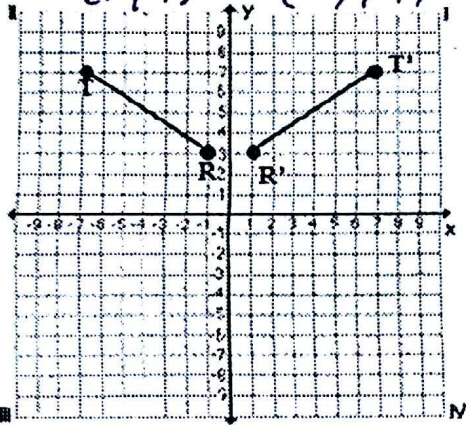
description

rule

Identify each transformation with the correctly written rule:

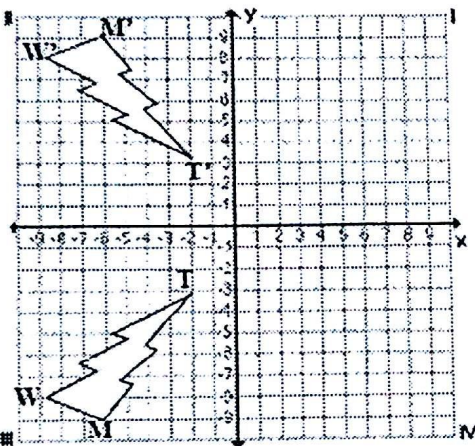
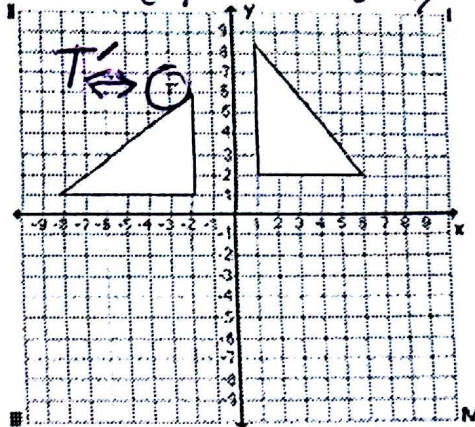
$(x, y) \rightarrow (-x, y)$

$r_{y\text{-axis}}$



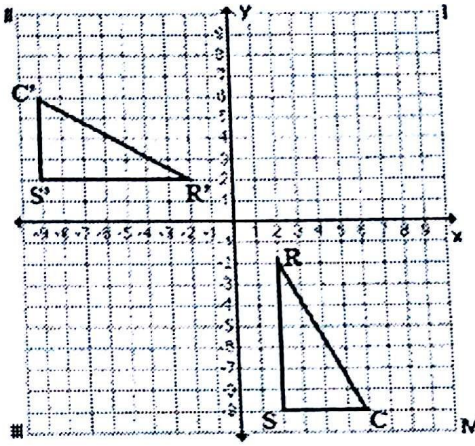
$(x, y) \rightarrow (-y, x)$

R_{90°



R_{270°

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



$r_{y=x}$

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

Part 2: Given $C(10, -5)$ What would the image of C be under the following transformations. Make sure you ALWAYS start with the pre-image of C. *All answers preceded by C'*

- Translate down 3, right 4 $(14, -8)$
- Dilate 4 $(40, -20)$
- Rotate 270 $(-5, -10)$
- Reflect x-axis $(10, 5)$
- Rotate 180 $(-10, 5)$
- Reflect y-axis $(-10, -5)$
- Rotate 90 $(5, 10)$
- Reflect $y = x$ $(-5, 10)$
- Reflect y-axis, then rotate 180 $(10, 5)$
- Reflected over x-axis and then translated up 7 and left 1. $(9, 12)$

There will be a short review section on your test, so do not be surprised by this. Possible topics that could be covered include:

- Factoring
- Solving by factoring
- Solving radical equations
- Quadratic Formula

$(-x, -y)$