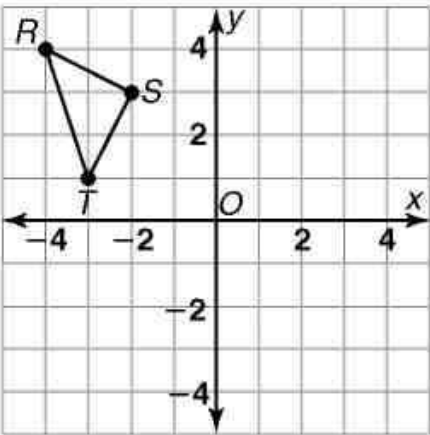


Transformations Unit 3 Review

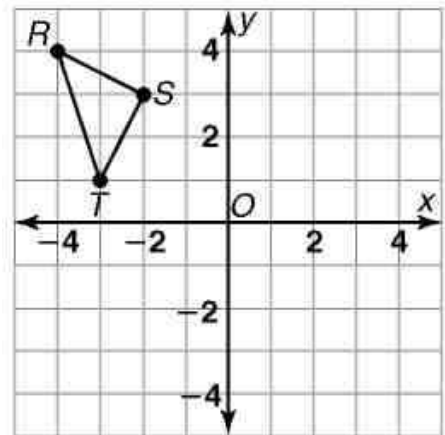
TRANSLATIONS

1. What is the image of $(-4, 6)$ after the translation $(x, y) \rightarrow (x - 5, y - 2)$?
2. What is a rule to describe the translation of left 2 and up 5? $(x, y) \rightarrow (\quad , \quad)$
3. Translate triangle RST 4 units right and 5 unit down. Label the new triangle R'S'T'.

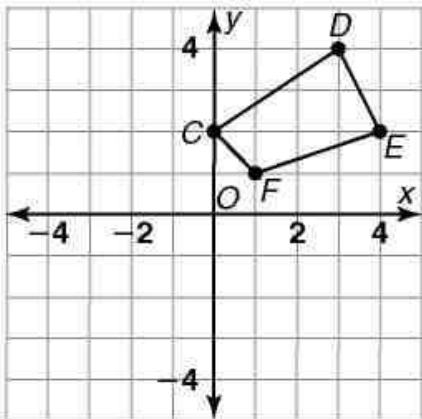


REFLECTIONS

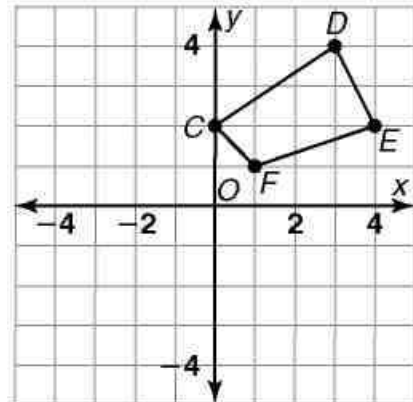
5. What is the image of $(-1, -3)$ after the reflection across the x-axis?
6. Which is a rule to describe the reflection over the y axis? $(x, y) \rightarrow (\quad , \quad)$
7. Reflect triangle RST over the x-axis.. Label the new triangle R'S'T'.



4. Translate figure CDEF 6 units left and 2 units down. Label the new triangle C'D'E'F'.



8. Reflect figure CDEF over the y-axis. Label the new figure C'D'E'F'.

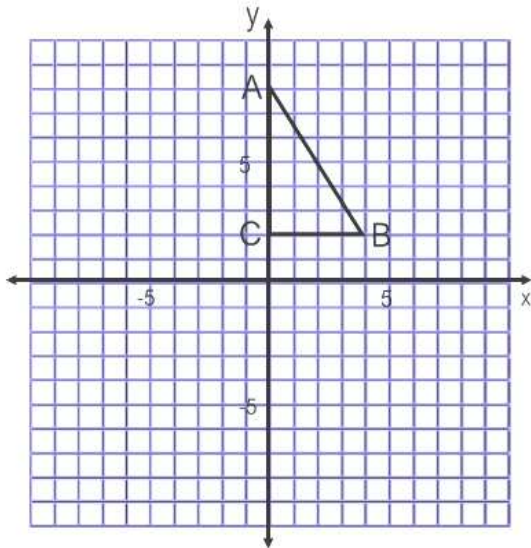


ROTATIONS

9. Rotate figure ABC 90° clockwise around the origin. Label the new figure A'B'C'.

Write the coordinates for the new figure.

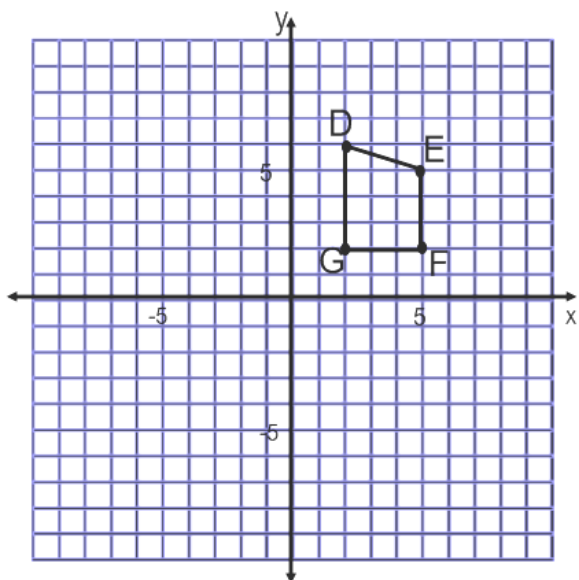
A' () B' () C' ()



10. Rotate figure ABC 90° counter-clockwise around the origin.

Write the coordinates for the new figure.

D' () E' () F' () G' ()

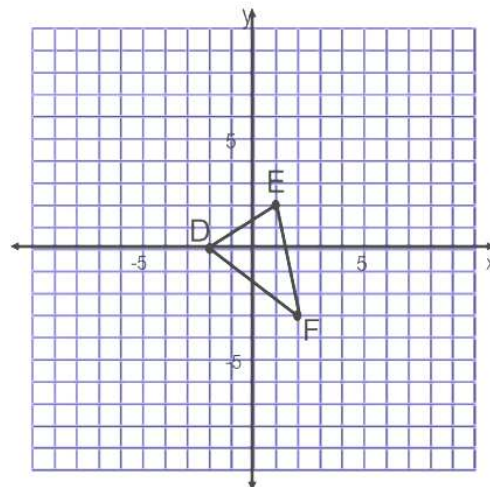


DILATIONS

11. What is the image of (3, 5) after the dilation with scale factor 2?

12. Which is a rule to describe a dilation of 1/3?
 $(x, y) \rightarrow (\quad , \quad)$

13. Perform a dilation on the figure with a scale factor of 2.



14. Perform a dilation on the figure with a scale factor of 1/2.

