

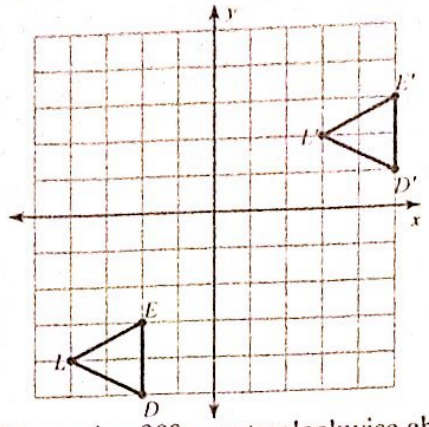
CCSS Geometry

G2a Check-in Quiz

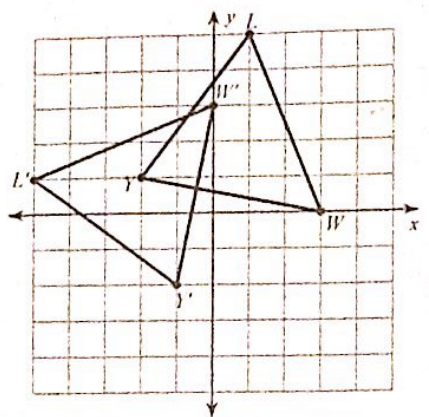
C Level:

Graph the image of the figure using the transformation given.

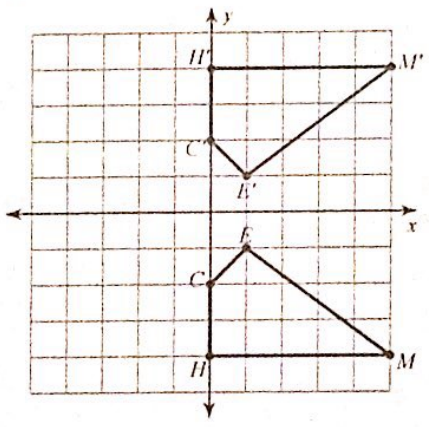
1) translation: 7 units right and 6 units up



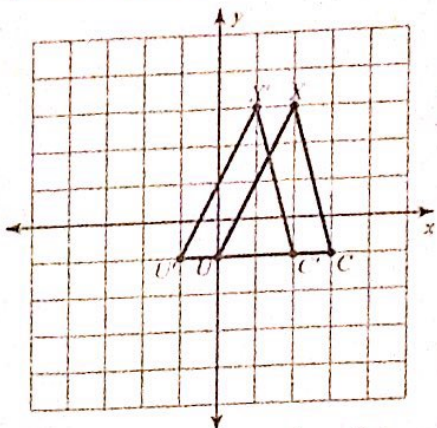
3) rotation 90° counterclockwise about the origin



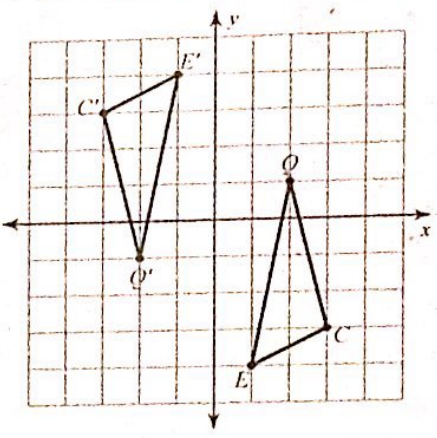
5) reflection across the x-axis



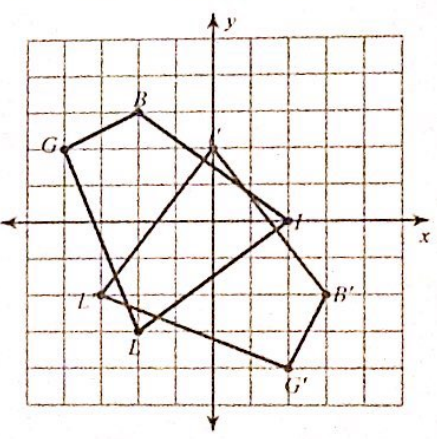
2) translation: 1 unit left



4) rotation 180° about the origin

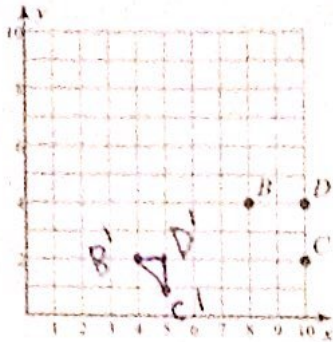


6) reflection across y = x



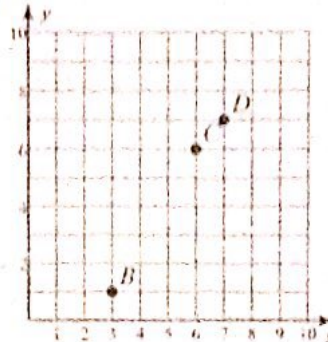
Connect the points to make triangle BCD and then dilate according to the given scale factor (k).

7)



$B(8, 4)$ $C(10, 2)$ $D(10, 4)$

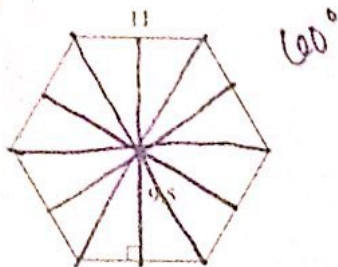
8)



$D(7, 7)$ $C(6, 6)$ $B(3, 1)$

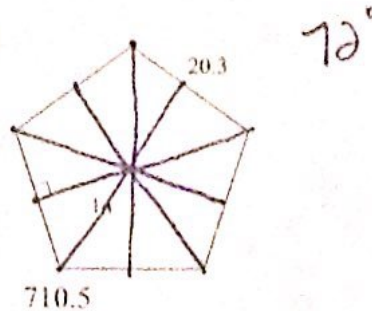
Draw all lines of reflectional symmetry.
State the smallest degree of rotational symmetry.

9)



313.5

10)

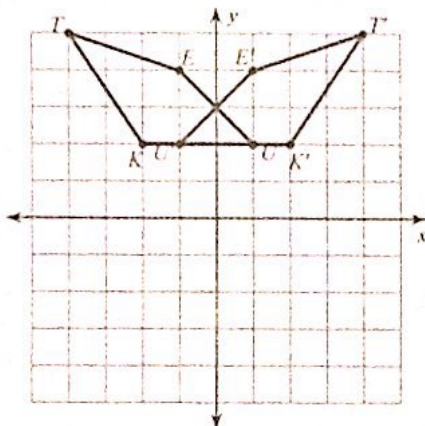


710.5

Challenge Problems:

Write the rule for the following transformations. Use $(x, y) \rightarrow (x', y')$ notation.

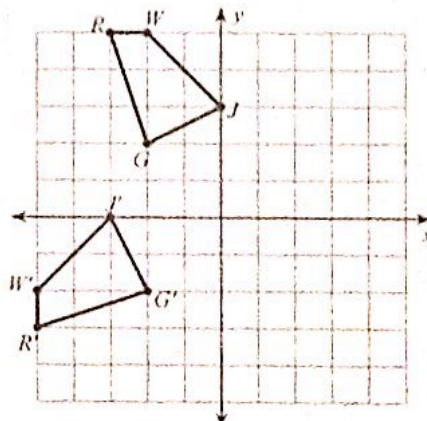
11)



reflection across the y-axis

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

12)



rotation 90° counterclockwise about the origin

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