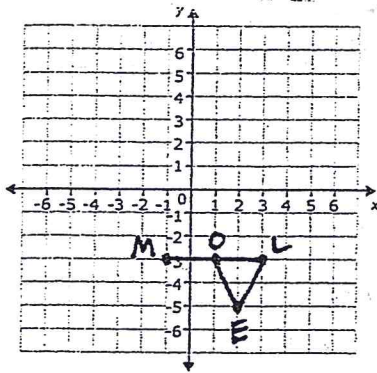


Transformation Review - Day 2

Name _____
Per _____ A# _____

Fill in all missing information:

①



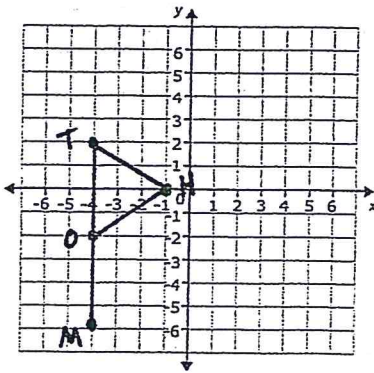
Written:
Rotate MOLE 90° counter-clockwise about the origin (0,0).

Algebraic:
 $(x, y) \rightarrow (\quad , \quad)$

Coordinates:

Original	Image
M _____	M' _____
O _____	O' _____
L _____	L' _____
E _____	E' _____

②



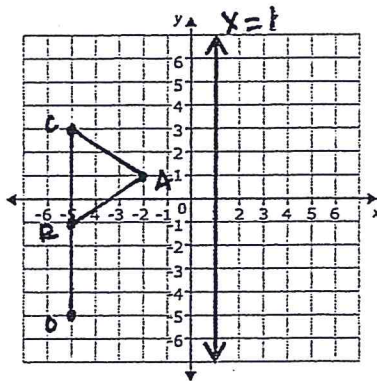
Written:
Slide MOTH _____ to the _____ and _____.

Algebraic:
 $(x, y) \rightarrow (x - 3, y + 2)$

Coordinates:

Original	Image
M _____	M' <u>-7, -4</u>
O _____	O' <u>-7, 0</u>
T _____	T' <u>-7, 4</u>
H _____	H' <u>-4, 2</u>

③



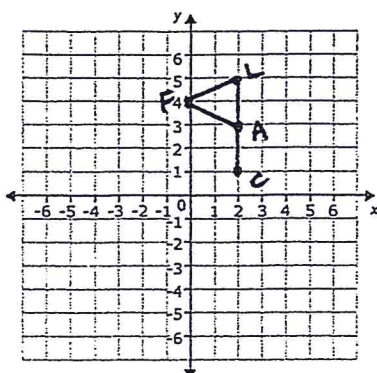
Written:
Reflect ORCA over the line $x = 1$.

Algebraic:
 $(x, y) \rightarrow (\quad , \quad)$

Coordinates:

Original	Image
O _____	O' _____
R _____	R' _____
C _____	C' _____
A _____	A' _____

④

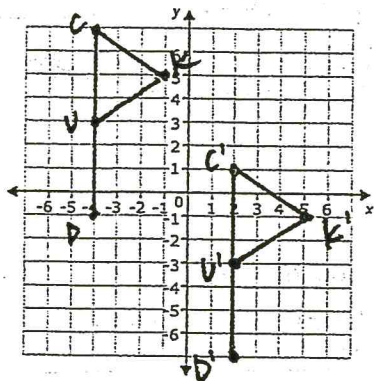


On the graph, draw the reflection of CALF over the line $x = 3$. Label the image $C'A'L'F'$.

Now create $C''A''L''F''$ by rotating polygon $C'A'L'F'$ 90° about the origin (0,0).

What will be the coordinates of point C'' ? _____

5

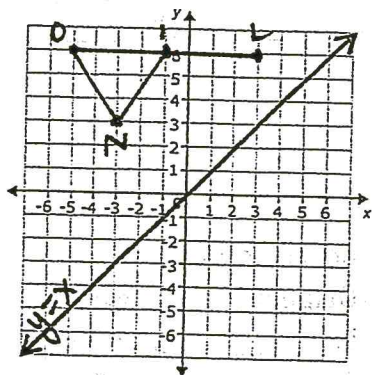


Written:
Slide DUCK to the
 _____ and _____.

Algebraic:
 $(x, y) \rightarrow (x + \quad, y + \quad)$

Coordinates:
 Original Image
 D _____ D' _____
 U _____ U' _____
 C _____ C' _____
 K _____ K' _____

6

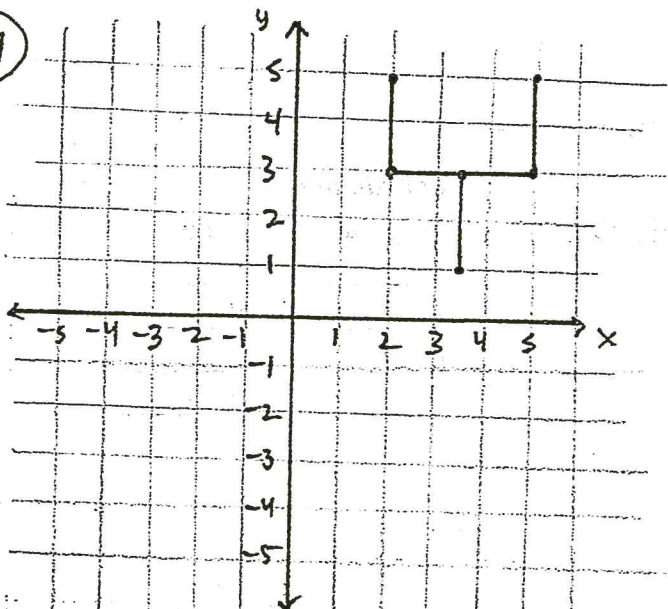


Written:
Reflect LION over the line
 $y = x$.

Algebraic:
 $(x, y) \rightarrow (\quad, \quad)$

Coordinates:
 Original Image
 L _____ L' _____
 I _____ I' _____
 O _____ O' _____
 N _____ N' _____

7



Draw a football that would go through the uprights after these following moves:

1. Reflect over the y-axis.
2. Rotate 180° around the origin.

8 Solve for x (and check).

$$3x + 0 - 2(x + 1) = 3x + 12$$