Composite Transformations

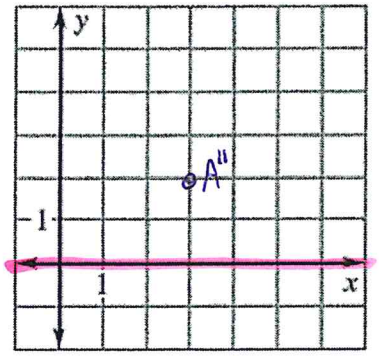
Name: Key

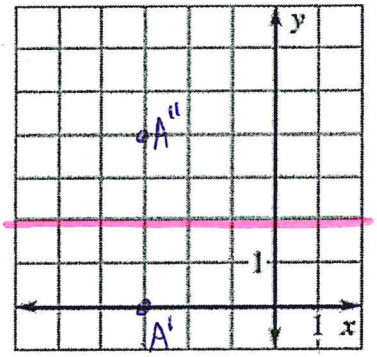
Graph the image of $A(1,-3)$ after the described glide reflection.

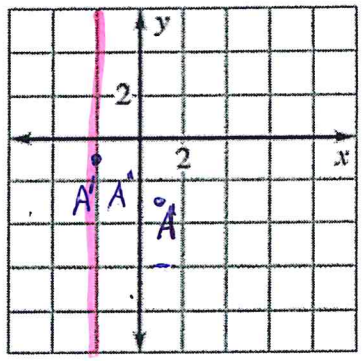
1) Translation: $(x,y) \rightarrow (x+2,y)$
Reflection: in the x-axis

2) Translation: $(x,y) \rightarrow (x-4,y+3)$
Reflection: in $y=2$

3) Translation: $(x,y) \rightarrow (x-3,y+2)$
Reflection: in $x=2$

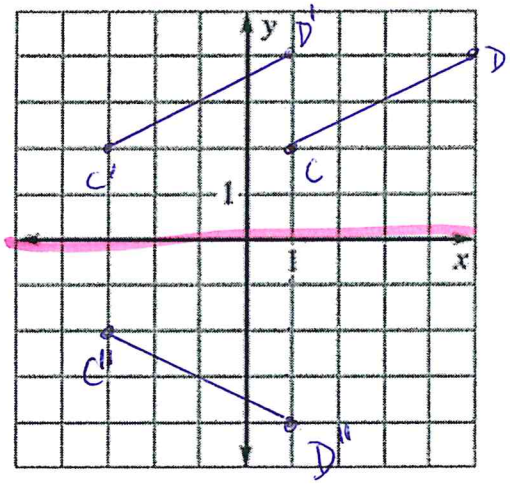




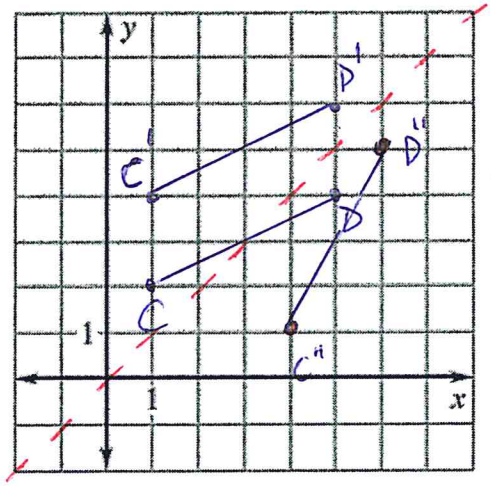


The endpoints of $\overline{CD}$ are $C(1,2)$ and $D(5,4)$. Graph the image of $\overline{CD}$ after the glide reflection.

4) Translation: $(x,y) \rightarrow (x-4,y)$
Reflection: in x-axis

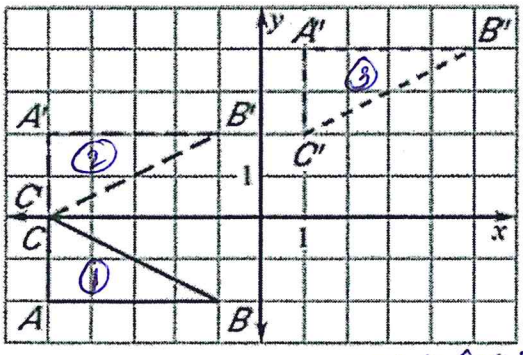


5) Translation: $(x,y) \rightarrow (x,y+2)$
Reflection: in $y=x$



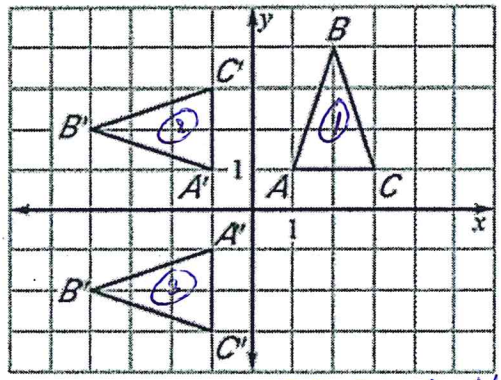
Describe the composition of the transformations.

6)



Reflect over x-axis then translate 6R, 2U

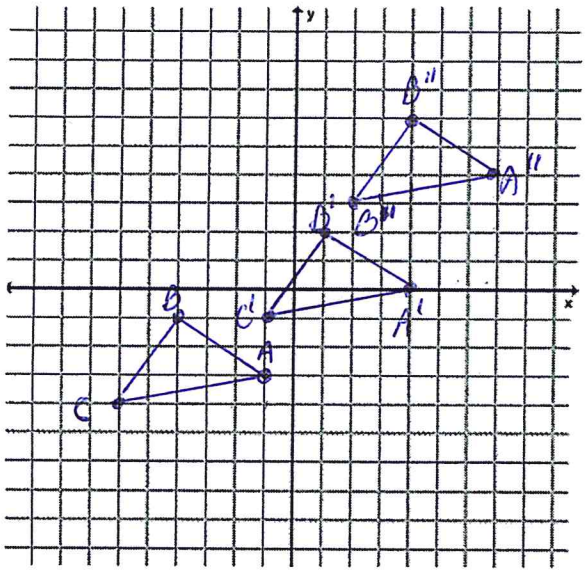
7)



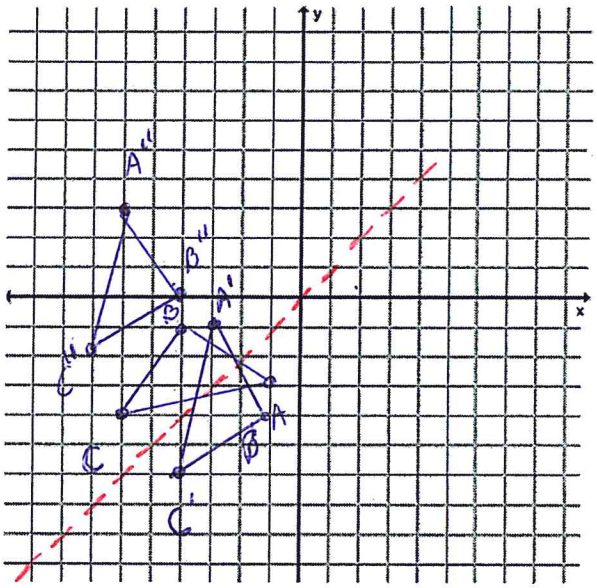
Rotate 90° CCW, then reflect over x-axis

Use the information below to sketch the image of triangle ABC, A(-1, -3), B(-4, -1), C(-6, -4) for each composite transformation

8) Translation: (x, y) →(x + 5, y + 3)
Translation: (x, y) →(x + 3, y + 4)



9) Reflection about y = -x
Translation, 3 units left, 4 units up



10) Reflection over the x-axis
Reflection over the y-axis