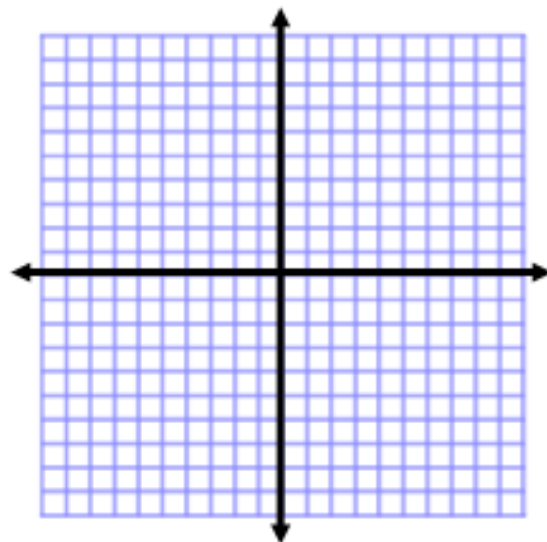
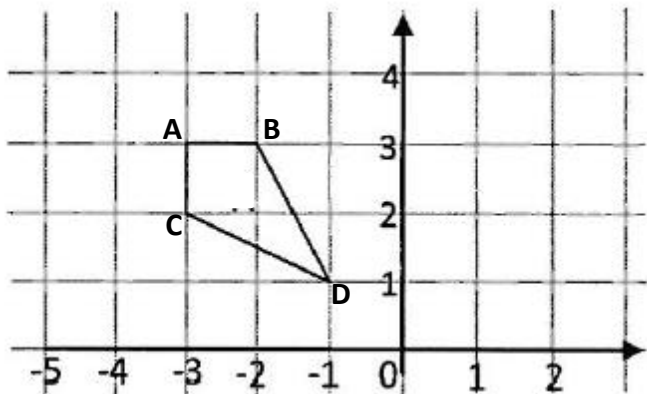


1.



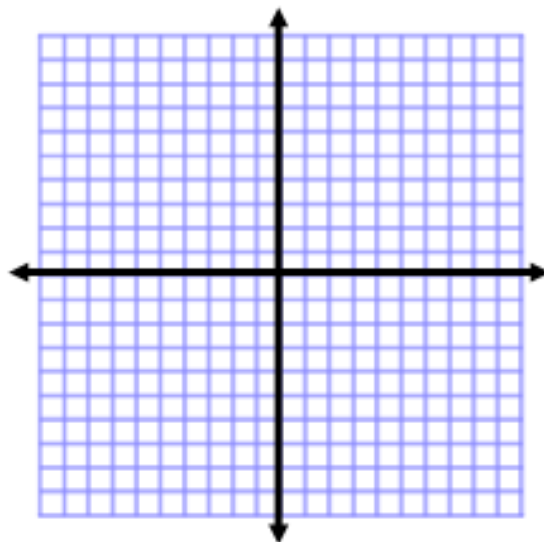
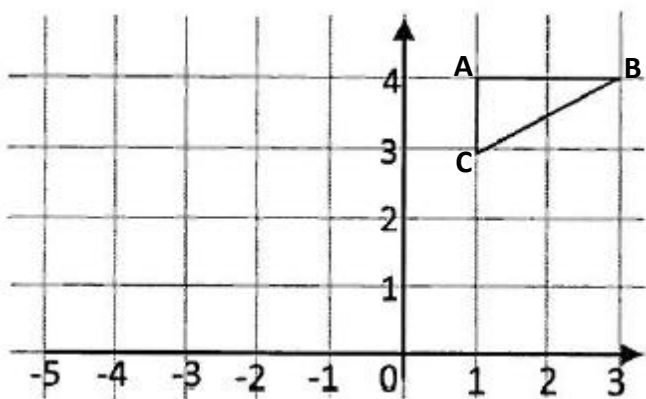
The diagram shows a quadrilateral ABDC.

ABDC is reflected over the line $x=0$. Draw and label $A'B'D'C'$.

$A'B'D'C'$ is mapped onto $A''B''D''C''$ by a reflection over the line $x=4$. Draw and label $A''B''D''C''$.

Describe fully the single transformation which maps ABDC to $A''B''D''C''$. Can similar transformations on this shape be created in the same way?

2.



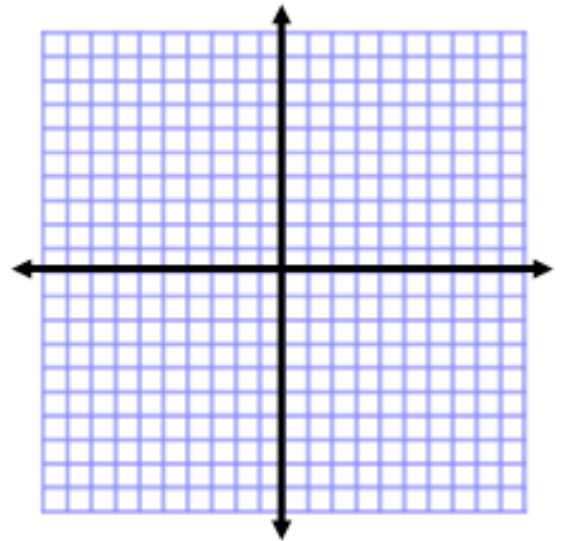
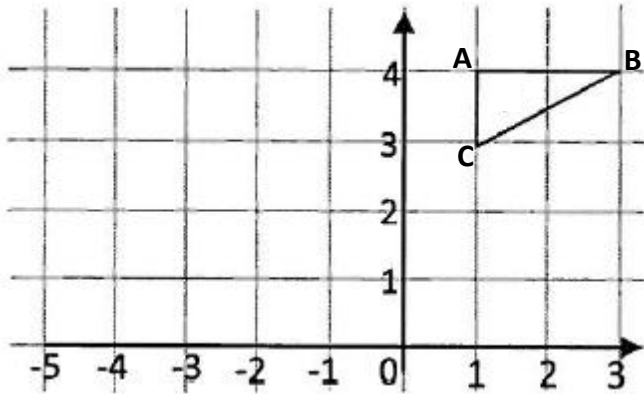
The diagram shows $\triangle ABC$.

Rotate $\triangle ABC$ 270° counterclockwise about the origin to $\triangle A'B'C'$. Draw and label $\triangle A'B'C'$.

Reflect $\triangle A'B'C'$ over the line $y = 0$ to $\triangle A''B''C''$. Draw and label $\triangle A''B''C''$.

Describe fully the single transformation which maps $\triangle ABC$ to $\triangle A''B''C''$. Can similar transformations on this shape be created in the same way?

3.



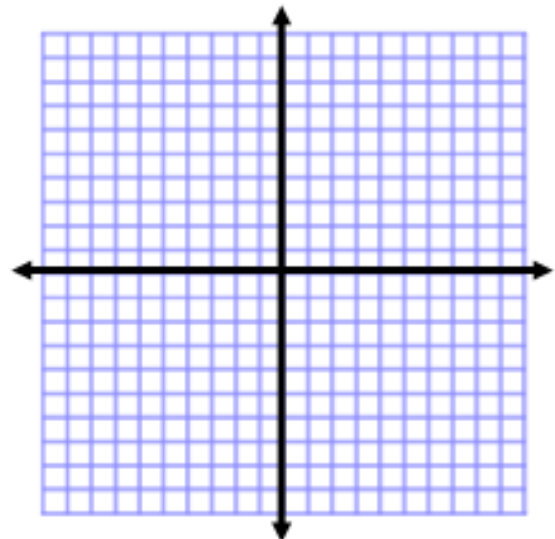
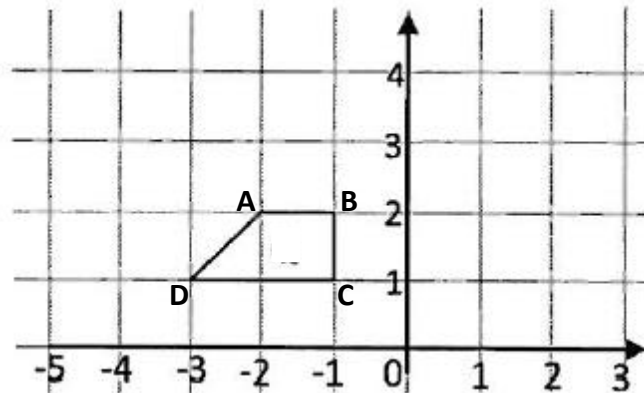
The diagram shows $\triangle ABC$.

$\triangle ABC$ is reflected across the line $y = x$. Draw and label $\triangle A'B'C'$.

Then, $\triangle A'B'C'$ is reflected over the line $y = 0$. Draw and label $\triangle A''B''C''$.

Describe fully the single transformation which maps $\triangle ABC$ to $\triangle A''B''C''$. Can similar transformations on this shape be created in the same way?

4.



The diagram shows quadrilateral ABCD.

ABCD goes through a rotation of 90° counterclockwise about $(0, 0)$. Draw and label the image.

$A'B'C'D'$ is mapped onto $A''B''C''D''$ by a reflection over the line $x = 0$. Draw and label $A''B''C''D''$.

Describe fully the single transformation which maps ABCD to $A''B''C''D''$. Can similar transformations on this shape be created in the same way?