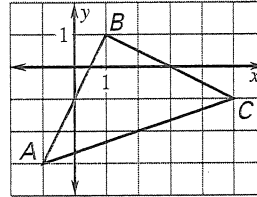


Practice C

For use with pages 430–436

Perform the stated transformation on the preimage, $\triangle ABC$. Give the coordinates of the image, $\triangle A'B'C'$.

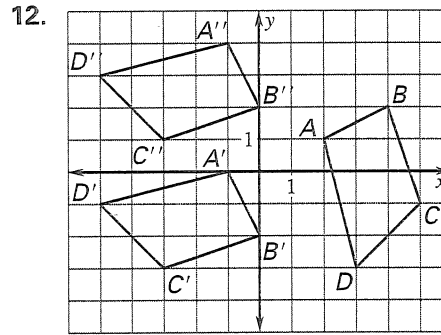
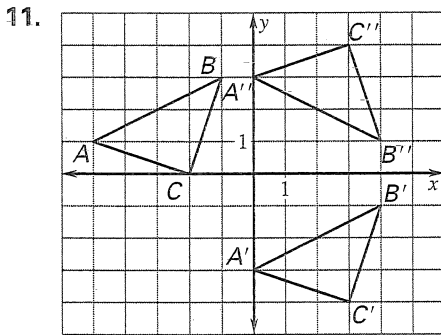
1. Rotation: 270° clockwise about the origin
2. Reflection: in $x = -2$
3. Translation: $(x, y) \rightarrow (x + 6, y + 4)$
4. Rotation: 90° counterclockwise about the origin
5. Translation: $(x, y) \rightarrow (x - 5, y - 4)$
6. Reflection: in the line $y = -x$



Sketch the image of $A(-3, 5)$ after the described glide reflection.

- | | |
|--|--|
| <ol style="list-style-type: none"> 7. Translation: $(x, y) \rightarrow (x + 3, y - 2)$
Reflection: in the y-axis 9. Translation: $(x, y) \rightarrow (x + 5, y - 4)$
Reflection: in $y = -2$ | <ol style="list-style-type: none"> 8. Translation: $(x, y) \rightarrow (x - 6, y)$
Reflection: in $x = 4$ 10. Translation: $(x, y) \rightarrow (x - 1, y - 4)$
Reflection: in $y = -x$ |
|--|--|

Describe the composition of the transformations.



Decide whether the part of the waveform that is below the x -axis is a glide reflection of the part that is above. If it is, write the translation using a vector in component form.

