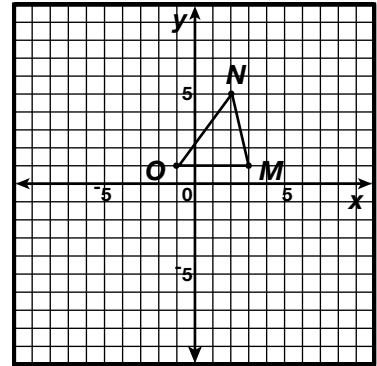


Transformations in the Coordinate Plane

Identify the coordinates of $\triangle MNO$ after each transformation. Use $\triangle XYZ$ for the transformed triangle.



1. Translate 4 units left.

2. Translate 3 units up.

3. Translate 7 units right, then 2 units down.

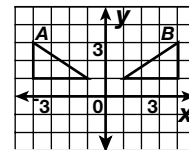
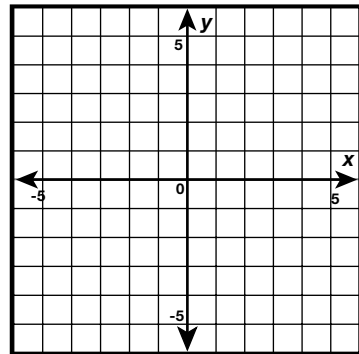
4. Reflect across the x -axis.

Draw $M(3, 1)$, $N(2, 5)$, $O(-1, 1)$. Then complete each transformation, using the same coordinate grid.

5. Rotate 90° counterclockwise about the origin to form $\triangle ABC$.

6. Rotate 180° clockwise about the origin to form $\triangle EFG$.

7. Identify the transformation that changes figure A into figure B.



Test Prep

8. What are the coordinates of the point $(2, -3)$ after a reflection across the x -axis?

A $(2, 3)$

C $(-2, 3)$

B $(-2, -3)$

D None of the above

9. You translate a point 3 units to the right. Explain how to find the coordinates of the translated point.
