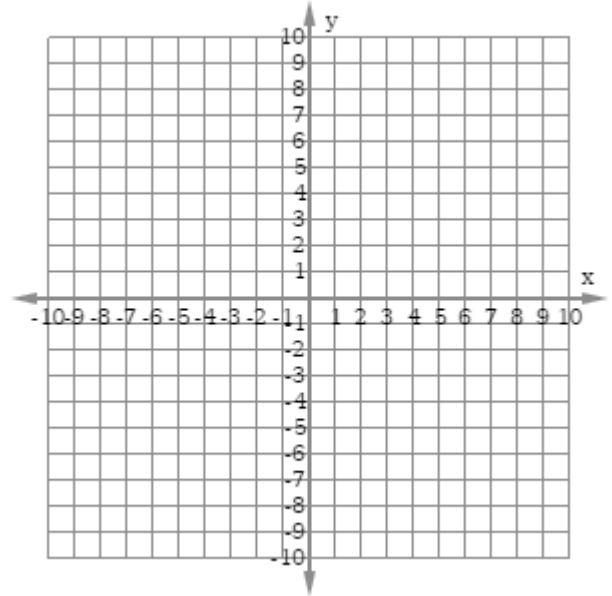
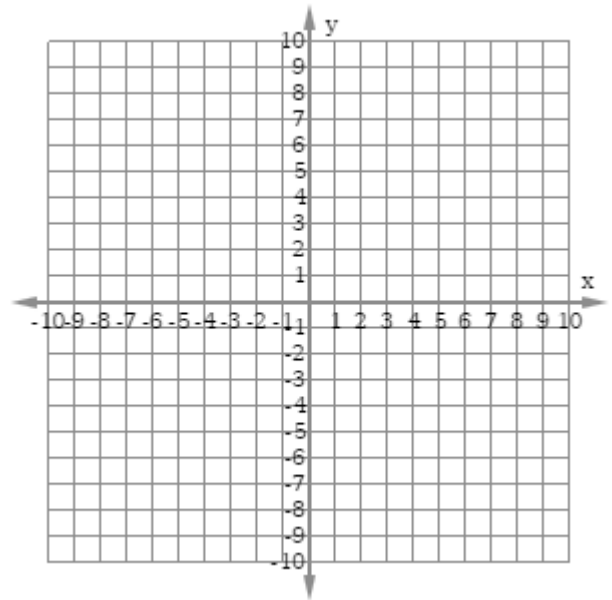


Part A: Congruence & Transformation [G-CO.7]

1. **Graph** triangle ABC with vertices A(-3, 5), B(1, 6), C(4, 0). **Reflect** triangle ABC across the x -axis to form triangle A'B'C'.



2. **Graph** quadrilateral MNOP with vertices M(-4, 9), N(1, 10), O(3, 6), P(-1, 4). **Rotate** MNOP 90° around the origin counter-clockwise.



3. **Select** the pair of transformations that is the same as a reflection across the x -axis.

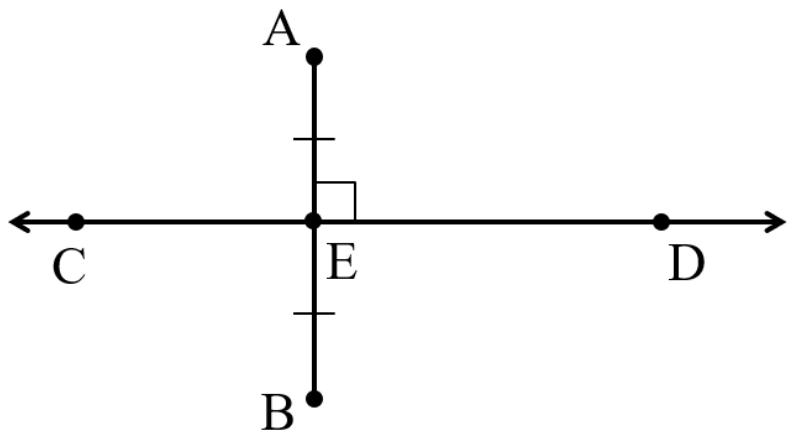
- A) a rotation of 90° counter-clockwise and a reflection across the x -axis.
- B) a rotation of 180° and a reflection across the y -axis.
- C) a rotation of 180° and a reflection across the x -axis.
- D) a rotation of 90° clockwise and a reflection across the y -axis.

Part B: Triangles [G-CO.10]

4. Kyra claims that, given any segment \overline{AB} with perpendicular bisector \overline{CD} , as shown...

... any point on line \overline{CD} will be equidistant from points A and B.

Prove Kyra's claim.



5. Given lines m and n are parallel, **prove** that the sum of the interior angles of the triangle shown ($m\angle 2 + m\angle 5 + m\angle 6$) sum to 180° .

