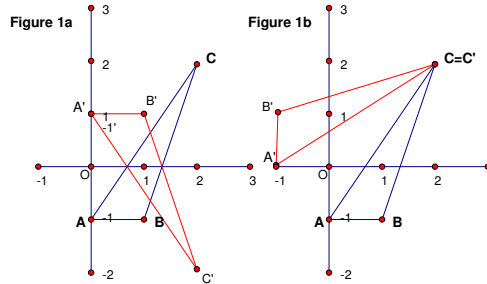


Name: _____

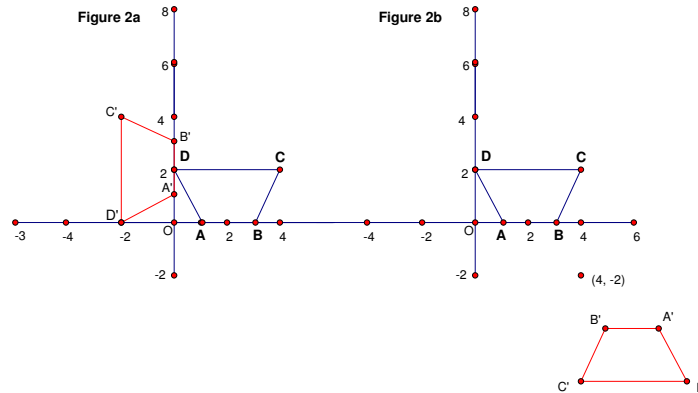
Date: _____

Instruction: Draw and label the image of each figure under the transformation as instructed. Give the coordinates of the vertices in each case.

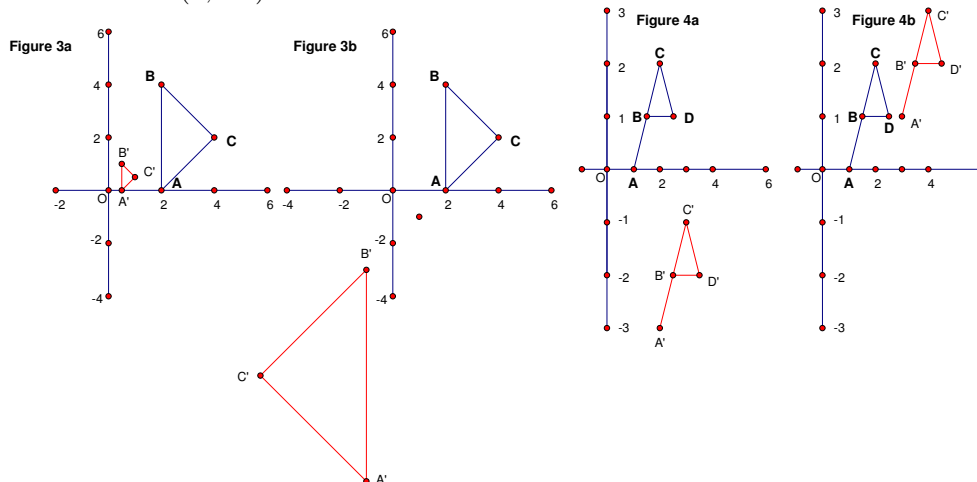
1. In Figure 1 below, draw (a) the reflection across the x -axis, (b) reflection across the line $y = x$.



2. In Figure 2 below, draw (a) an anticlockwise rotation of 90° about the origin, (b) 180° rotation about $(-2, 4)$.



3. In Figure 3 below, draw (a) an enlargement with center $(0, 0)$ and scale factor $\frac{1}{4}$, (b) enlargement with center $(1, -1)$ and scale factor -2 .

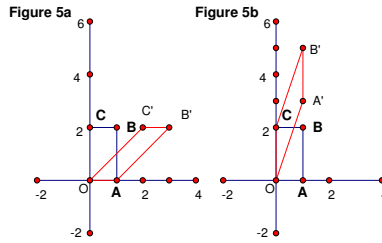


4. In Figure 4 above, draw (a) translation down 3, right 1, (b) translation up 1, right 2.

Name: _____

Date: _____

5. In Figure 5 below, shear 3 units in the positive direction and having (a) OA as the invariant line segment, (b) OC as the invariant line segment.



6. In Figure 6 above, (a) stretch parallel to the x -axis with factor 2 and the y -axis as the invariant line, (b) stretch parallel to the y -axis with factor $\frac{1}{2}$ and the x -axis as the invariant line.

