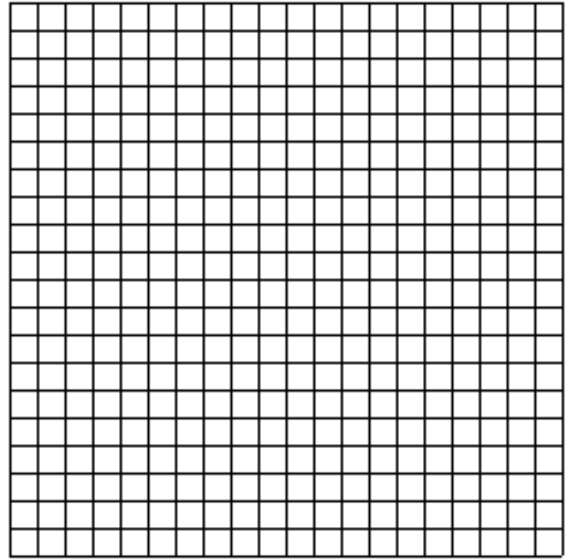
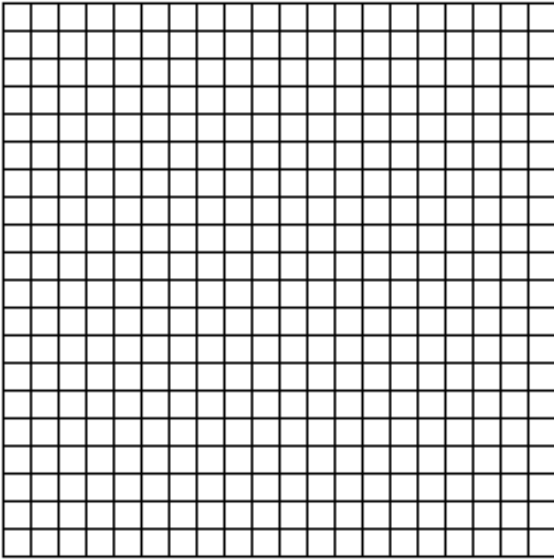


Use of the grids is optional for solving the following problems.



- What is the image of point $A(4,2)$ after the composition of transformations defined by $R_{90^\circ} \circ r_{y=x}$?
(1) $(-4,2)$ (2) $(4,-2)$ (3) $(-4,-2)$ (4) $(2,-4)$
- What is the image of point $(1,1)$ under $r_{y-axis} \circ R_{-90^\circ}$?
(1) $(1,1)$ (2) $(1,-1)$ (3) $(-1,1)$ (4) $(-1,-1)$
- The coordinates of JRB are $J(1,-2)$, $R(-3,6)$, and $B(4,5)$. What are the coordinates of the vertices of its image after the transformation $T_{2,-1} \circ r_{y-axis}$?
(1) $(3,1), (-1,-7), (6,-6)$ (3) $(1,-3), (5,5), (-2,4)$
(2) $(3,-3), (-1,5), (6,4)$ (4) $(-1,-2), (3,6), (-4,5)$
- If the coordinates of point P are $(2,-3)$, then $(R_{90^\circ} \circ R_{-180^\circ})(P)$ is:
(1) $(-2,3)$ (2) $(-2,-3)$ (3) $(3,-2)$ (4) $(-3,-2)$

