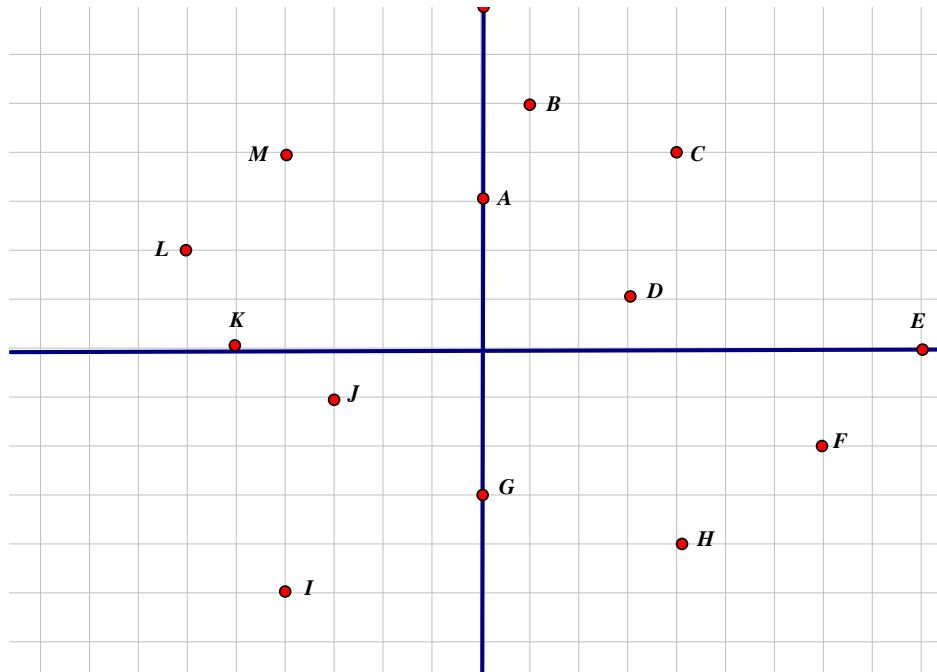


## Reflections

$$\begin{aligned}r_{x\text{-axis}}(x, y) &\longrightarrow (x, -y) \\r_{y\text{-axis}}(x, y) &\longrightarrow (-x, y) \\r_{y=x}(x, y) &\longrightarrow (y, x) \\r_{y=-x}(x, y) &\longrightarrow (-y, -x) \\r_{\text{origin}}(x, y) &\longrightarrow (-x, -y)\end{aligned}$$



For the points A through L, find their images

1. in a reflection over the x-axis
2. in a reflection over the y-axis
3. in the line  $y = x$
4. in the line  $y = -x$
5. over the origin