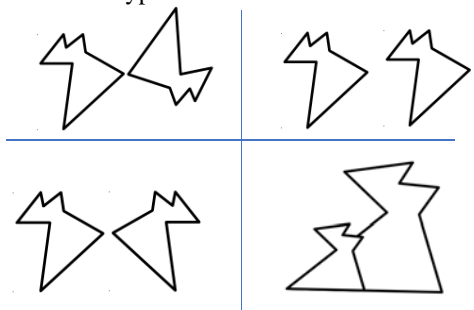
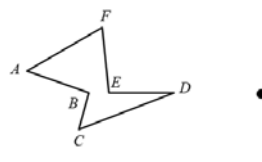
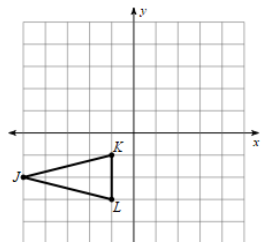
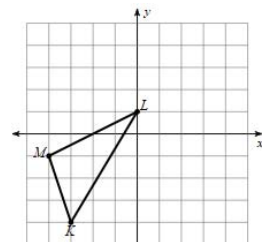
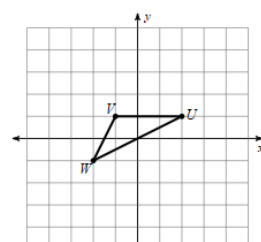
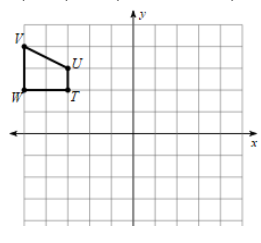
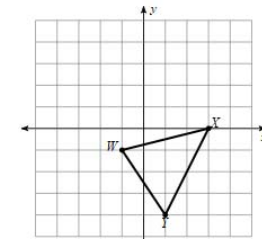
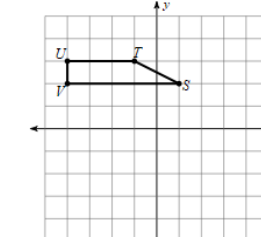
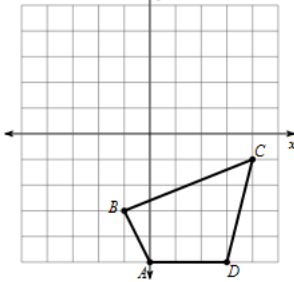
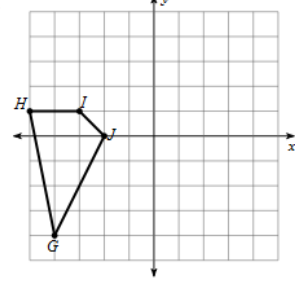


<p>1. Name the type of transformation shown:</p> 	<p>2. Rotate the object 120° (counter-clockwise) about the point. You will need tracing paper and protractor.</p> 	
<p>3. Match the coordinate rule with the transformation.</p> <p>a) $(x, y) \rightarrow (-x, y)$ _____</p> <p>b) $(x, y) \rightarrow (x + a, y + b)$ _____</p> <p>c) $(x, y) \rightarrow (ax, ay)$ _____</p> <p>d) $(x, y) \rightarrow (y, x)$ _____</p> <p>e) $(x, y) \rightarrow (x, -y)$ _____</p> <p>f) $(x, y) \rightarrow (-x, -y)$ _____</p>	<p>(J) Reflection over $y = x$</p> <p>(K) Reflection over y-axis</p> <p>(L) Reflection over x-axis</p> <p>(M) Rotation 180° about $(0, 0)$</p> <p>(N) Dilation with center $(0, 0)$ and scale factor a</p> <p>(P) Translation horizontally a and vertically b</p>	
<p>4. Give the coordinates of the image point A'.</p> <p>a) $A(3, -4)$ is reflected over the x-axis. $A'(\quad)$</p> <p>b) $A(3, -4)$ is translated by $\langle -5, 7 \rangle$. $A'(\quad)$</p> <p>c) $A(3, -4)$ is rotated 180° about $(0, 0)$. $A'(\quad)$</p> <p>d) $A(3, -4)$ is reflected over $y = x$. $A'(\quad)$</p>	<p>5. If the point $A(3, -4)$ is reflected to $A'(-3, -4)$ then the line of reflection is the _____ - axis.</p> <p>6. If the point $A(3, -4)$ is translated to $A'(-3, -4)$ then the translation vector is:</p>	
<p>7. Reflect over y-axis</p> 	<p>8. Rotate 180° about $(0, 0)$</p> 	<p>9. Dilate. Center $(0, 0)$ $k = 2$</p> 
<p>10. $(x, y) \rightarrow (x + 3, y - 5)$</p> 	<p>11. Reflect over $y = x$.</p> 	<p>12. Rotate 90° about $(0, 0)$</p> 
<p>13. Reflect over $y = -1$ and then reflect over the y-axis.</p>  <p>Would the final image be the same if you did the reflections in reverse order?</p>	<p>14. Reflect over the y-axis and then reflect over the x-axis.</p>  <p>What single transformation could be done to get to the same final image?</p>	