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| **Reflecting and Rotating 2-D Shapes on a Cartesian Plane** |
| Reflects a point in the *x*-axis, in the *y*-axis, and in a diagonal line P’ is the image of P after a reflection in the *x*-axis.P’’ is the image of P after a reflection in the *y*-axis.P’’’ is the image of P after a reflection in a diagonal line through the origin. | Reflects a shape and relates the vertices of each image to the shape ΔA’B’C’ is the image of ΔABC after a reflection in the *x*-axis.ΔA’’B’’C’’ is the image of ΔABC after a reflection in the *y*-axis.ΔA’’’B’’’C’’’ is the image of ΔABC after a reflection in a diagonal line through the origin.Each vertex of the image is the same distance from the reflection line as its corresponding vertex on the shape. | Rotates a shape about a vertexΔAB’C’ is the image of ΔABC after a clockwise rotation of 90⁰ about vertex A.  | Rotates a shape about a point outside the shape ΔP’Q’R’ is the image of ΔPQR after a rotation of 180⁰ about point T.  |

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| **Observations/Documentation** |
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