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Find the coordinates of the vertices of each figure after the given transformation.

1) reflect across the y-axis

2) reflect across the x-axis

3) reflect across the y-axis

4) reflect across the x-axis

5) reflect across the y-axis

6) reflect across the x-axis

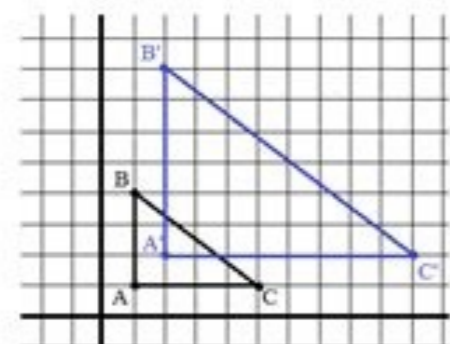
Matrix Coordinate Geometry

Scalar Multiplication will enlarge (or shrink) the mapped figure by a constant ratio.

Right Triangle ABC A(1, 1) B(1, 4) C(5, 1)
is expressed in the 2x3 matrix $\begin{bmatrix} 1 & 1 & 5 \\ 1 & 4 & 1 \end{bmatrix}$

$$2 \begin{bmatrix} 1 & 1 & 5 \\ 1 & 4 & 1 \end{bmatrix} = \begin{bmatrix} 2 & 2 & 10 \\ 2 & 8 & 2 \end{bmatrix}$$

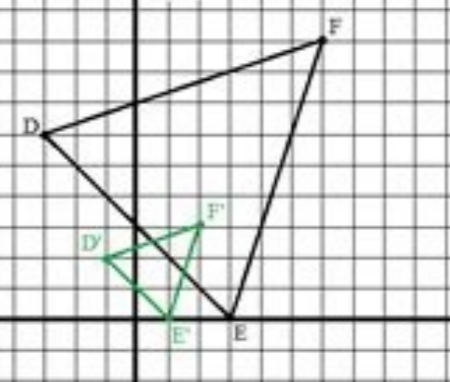
The triangle dimensions are doubled.
(Perimeter is 2x and area is 2²x (or 4x))



Triangle DEF with vertices
D(-3, 6) E(3, 0) F(6, 9)

$$\frac{1}{3} \begin{bmatrix} -3 & 3 & 6 \\ 6 & 0 & 9 \end{bmatrix} = \begin{bmatrix} -1 & 1 & 2 \\ 2 & 0 & 3 \end{bmatrix}$$

This triangle's dimensions are shrunk to 1/3 the original size.



Observations:

1) If a vertex is on the origin, then the figure will remain on the origin.
For any scalar K, $K \begin{bmatrix} 0 \\ 0 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$

2) For scalar K:
if $K > 1$, then the figure grows
if $0 < K < 1$, then the figure shrinks
if $K = 1$, the figure remains the same

3) If the scalar is negative, then the image is magnified and reflected over the origin.

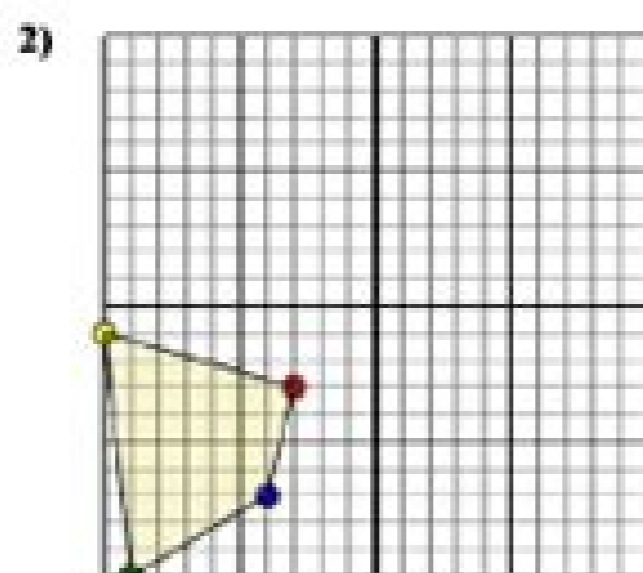
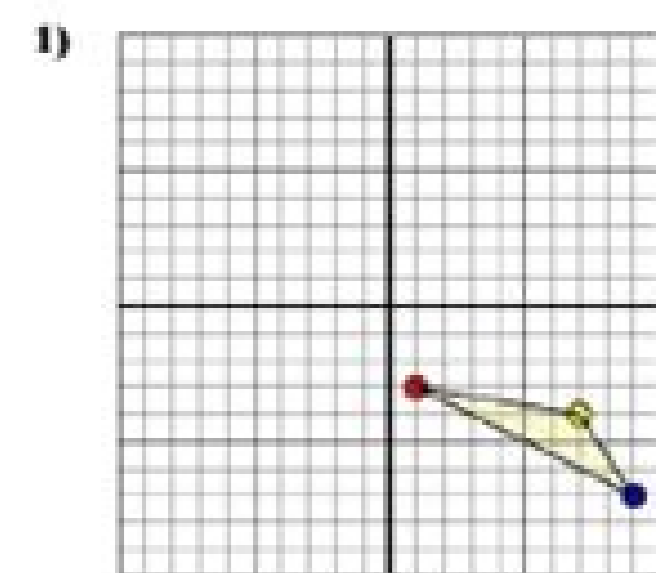
if $K = 0$, the image is transformed into a point on the origin!

$$0 \begin{bmatrix} x_1 & x_2 & x_3 & x_4 \\ y_1 & y_2 & y_3 & y_4 \end{bmatrix} = \begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$$

Rotating on a Coordinate Plane

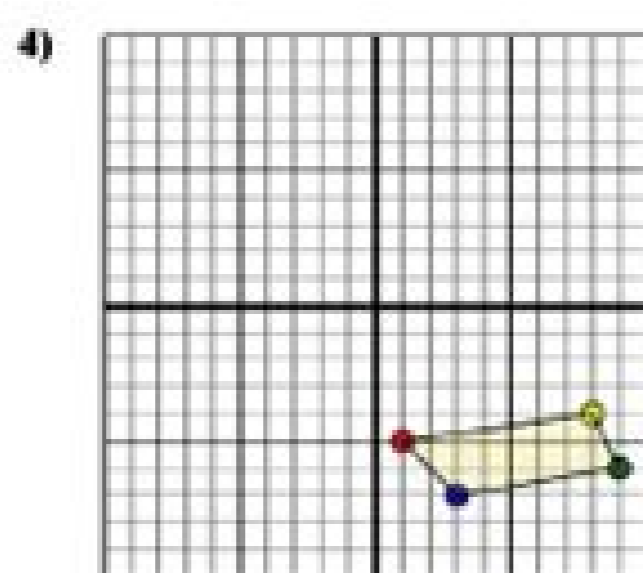
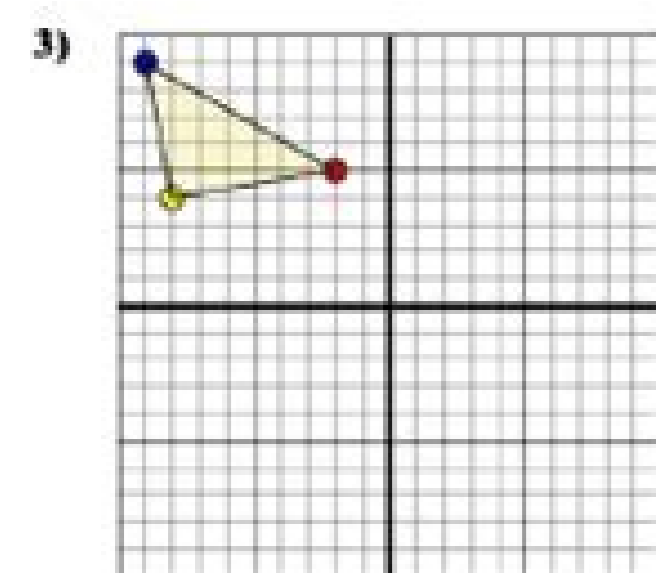
Name: _____

Rotate each shape as described.



The shape above has the following coordinates:
A. (1, -3)
B. (7, -4)
C. (9, -7)
Rotate the shape 180° clockwise.

The shape above has the following coordinates:
A. (-3, -3)
B. (-10, -1)
C. (-9, -10)
D. (-4, -7)
Rotate the shape 180° clockwise.



The shape above has the following coordinates:
A. (-2, 5)
B. (-8, 4)
C. (-9, 9)
Rotate the shape 180° counter-clockwise.

The shape above has the following coordinates:
A. (1, -5)
B. (8, -4)
C. (9, -6)
D. (3, -7)
Rotate the shape 180° clockwise.

Answers

- 1a. _____
1b. _____
1c. _____
1. **Graph**
2a. _____
2b. _____
2c. _____
2d. _____
2. **Graph**
3a. _____
3b. _____
3c. _____
3. **Graph**
4a. _____
4b. _____
4c. _____
4d. _____
4. **Graph**

Slope formula	$\text{slope, } m = \frac{\text{change in } y = \text{rise}}{\text{change in } x = \text{run}} = \frac{y_2 - y_1}{x_2 - x_1}$ <p>Parallel lines have equal slopes. The slopes of perpendicular lines are opposite reciprocals of each other.</p>
General Form	$Ax + By = C$
Slope Intercept Form	$y = mx + b$ <p>where m is the slope and b is the y-intercept</p>
Point Slope Form	$(y - y_1) = m(x - x_1)$ <p>where m is the slope</p>
Midpoint Formula	$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$
Distance Formula	$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

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