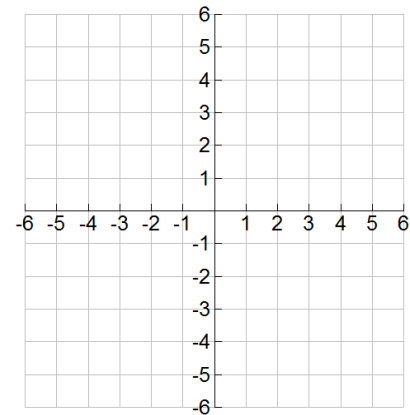


Name _____

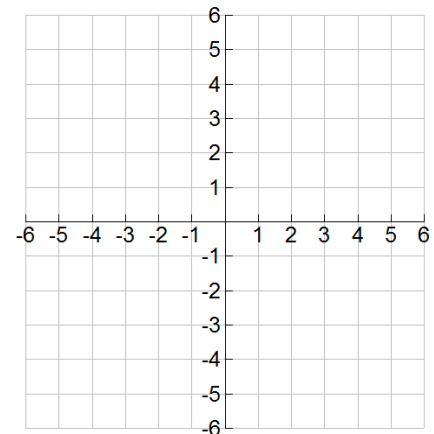
Graph the polygon with endpoints
A(2,1), B(5,6), and C(5,2)



Name _____

Translate ABC by the mapping notation and graph
 $(x, y) \longrightarrow (x + 1, y - 3)$

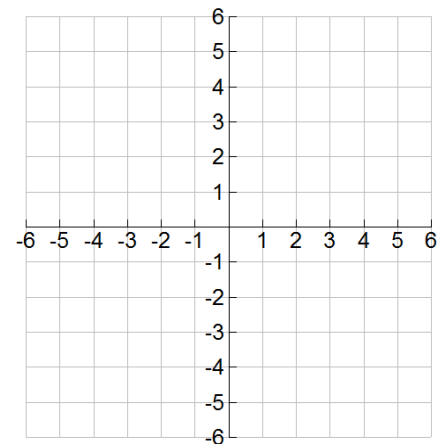
$(2,1) \longrightarrow (\quad , \quad)$
 $(5,6) \longrightarrow (\quad , \quad)$
 $(5,2) \longrightarrow (\quad , \quad)$



Name _____

Reflect the new figure over the x-axis and graph

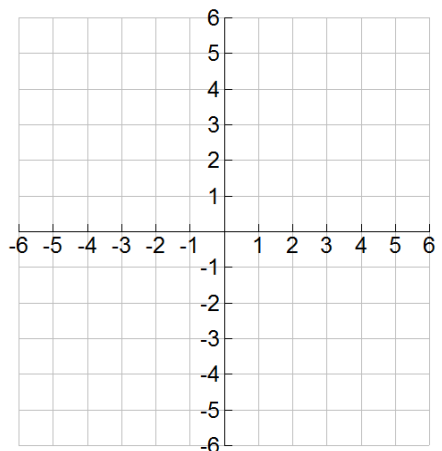
$(\quad , \quad) \longrightarrow (\quad , \quad)$
 $(\quad , \quad) \longrightarrow (\quad , \quad)$
 $(\quad , \quad) \longrightarrow (\quad , \quad)$



Name _____

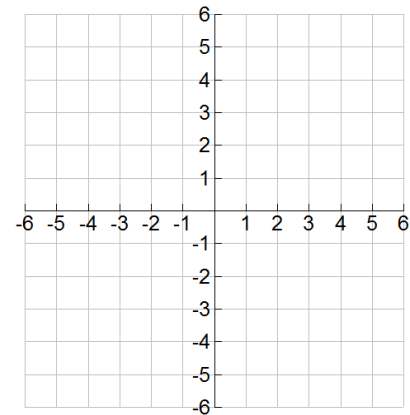
Rotate the new figure 90° clockwise and graph

$(\quad , \quad) \longrightarrow (\quad , \quad)$
 $(\quad , \quad) \longrightarrow (\quad , \quad)$
 $(\quad , \quad) \longrightarrow (\quad , \quad)$



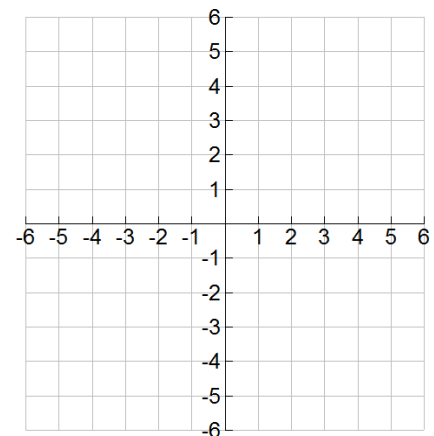
Name _____

Graph the polygon with endpoints
 $A(0,2)$, $B(1,3)$, and $C(2,1)$



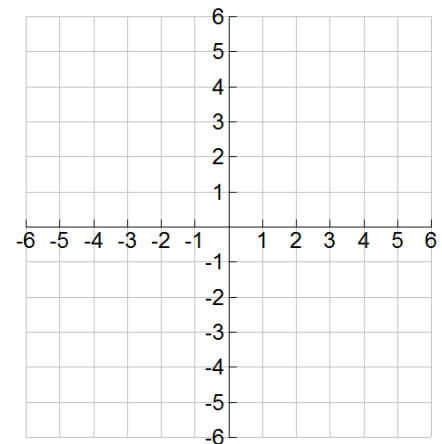
Name _____

Translate ABC by the mapping notation and graph
 $(x, y) \longrightarrow (x + 1, y - 1)$

 $(0,2) \longrightarrow (\quad , \quad)$ $(1,3) \longrightarrow (\quad , \quad)$ $(2,1) \longrightarrow (\quad , \quad)$ 

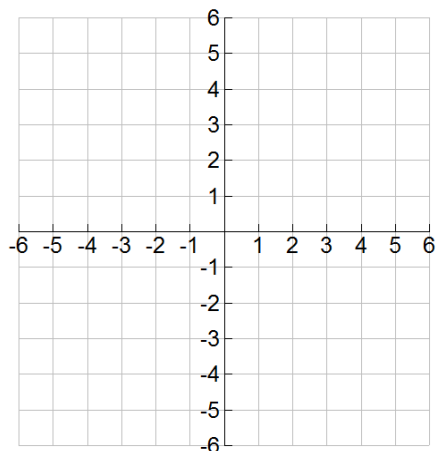
Name _____

Reflect the new figure over the y-axis and graph

 $(\quad , \quad) \longrightarrow (\quad , \quad)$ $(\quad , \quad) \longrightarrow (\quad , \quad)$ $(\quad , \quad) \longrightarrow (\quad , \quad)$ 

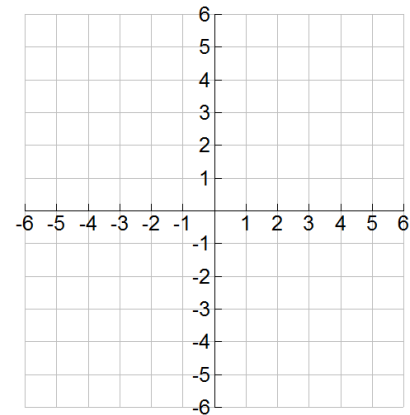
Name _____

Dilate the new figure by a factor of $n = 2$ and graph

 $(\quad , \quad) \longrightarrow (\quad , \quad)$ $(\quad , \quad) \longrightarrow (\quad , \quad)$ $(\quad , \quad) \longrightarrow (\quad , \quad)$ 

Name _____

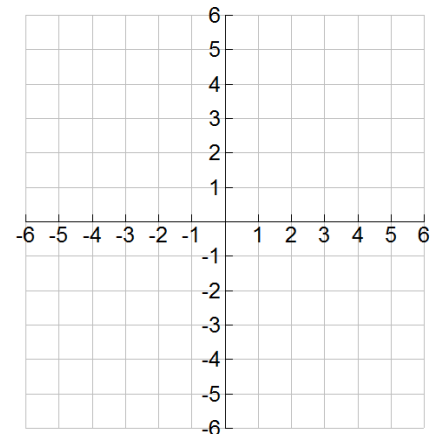
Graph the polygon with endpoints
 $A(-1,-3)$, $B(0,2)$, and $C(3,-2)$



Name _____

Translate ABC by the mapping notation and graph
 $(x, y) \longrightarrow (x, y + 3)$

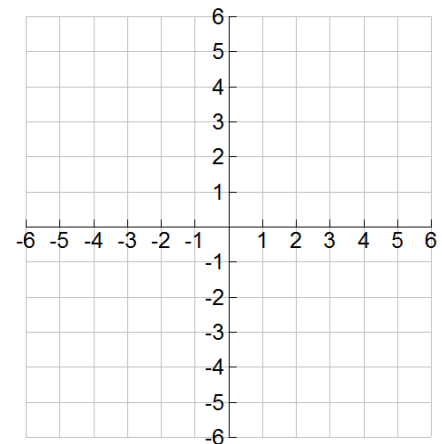
$(-1,-3) \longrightarrow (\quad , \quad)$
 $(0,2) \longrightarrow (\quad , \quad)$
 $(3,-2) \longrightarrow (\quad , \quad)$



Name _____

Reflect the new figure over the line $y = x$ and graph

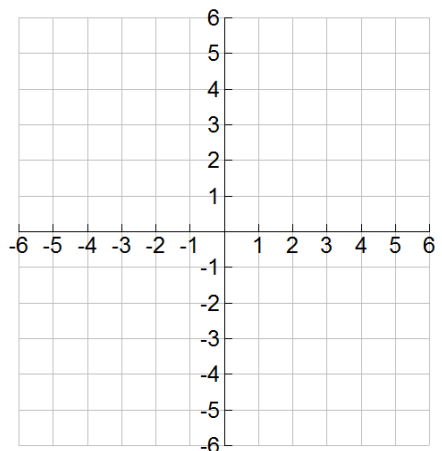
$(\quad , \quad) \longrightarrow (\quad , \quad)$
 $(\quad , \quad) \longrightarrow (\quad , \quad)$
 $(\quad , \quad) \longrightarrow (\quad , \quad)$



Name _____

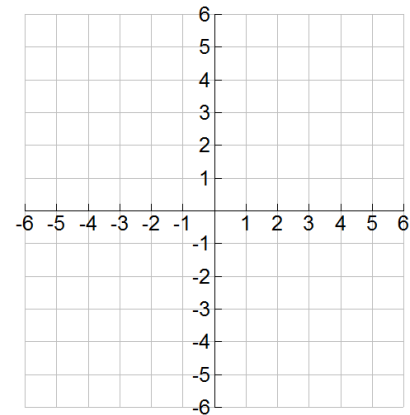
Rotate the new figure 90° counter-clockwise and graph

$(\quad , \quad) \longrightarrow (\quad , \quad)$
 $(\quad , \quad) \longrightarrow (\quad , \quad)$
 $(\quad , \quad) \longrightarrow (\quad , \quad)$



Name _____

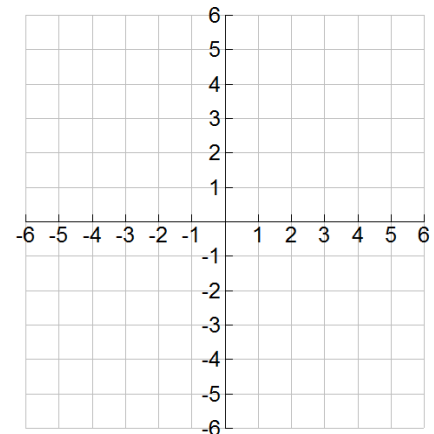
Graph the polygon with endpoints
A(6,4), B(-4,0), and C(0,4)



Name _____

Translate *ABC* by the mapping notation and graph
 $(x, y) \longrightarrow (x - 2, y - 4)$

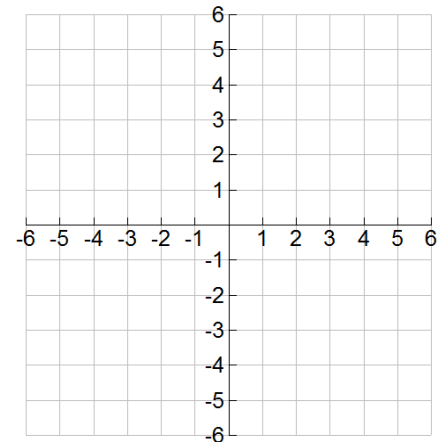
$(6,4) \longrightarrow (\quad , \quad)$
 $(-4,0) \longrightarrow (\quad , \quad)$
 $(0,4) \longrightarrow (\quad , \quad)$



Name _____

Rotate the new figure 180° and graph

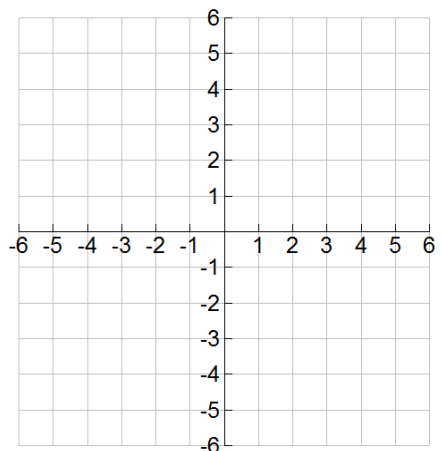
$(\quad , \quad) \longrightarrow (\quad , \quad)$
 $(\quad , \quad) \longrightarrow (\quad , \quad)$
 $(\quad , \quad) \longrightarrow (\quad , \quad)$



Name _____

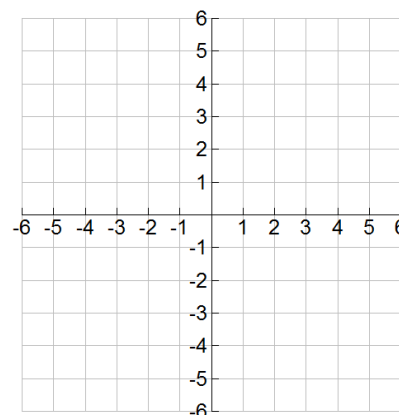
Dilate the new figure by a factor of $n = 1/2$ and graph

$(\quad , \quad) \longrightarrow (\quad , \quad)$
 $(\quad , \quad) \longrightarrow (\quad , \quad)$
 $(\quad , \quad) \longrightarrow (\quad , \quad)$



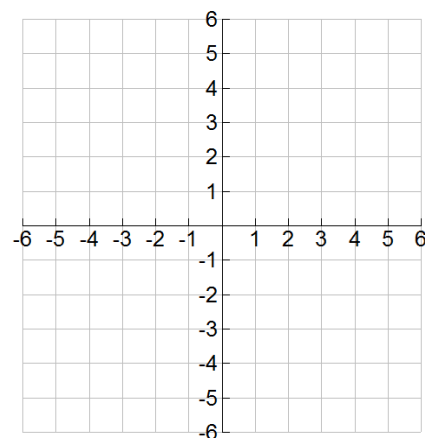
Name _____

Graph the polygon with endpoints
 $A(-2,-1)$, $B(0,2)$, and $C(0,-2)$



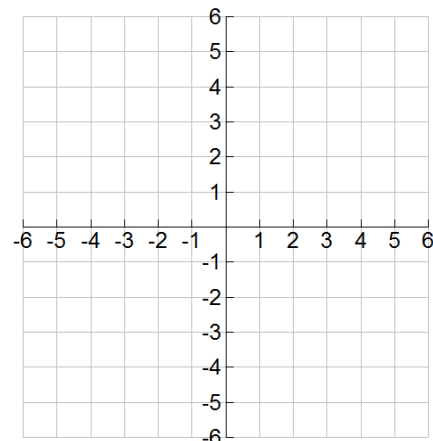
Name _____

Dilate the figure by a factor of $n = 3$ and graph

 $(-2,-1) \longrightarrow (\quad , \quad)$
 $(0,2) \longrightarrow (\quad , \quad)$
 $(0,-2) \longrightarrow (\quad , \quad)$


Name _____

Reflect the new figure over $y = -x$ and graph

 $(\quad , \quad) \longrightarrow (\quad , \quad)$
 $(\quad , \quad) \longrightarrow (\quad , \quad)$
 $(\quad , \quad) \longrightarrow (\quad , \quad)$


Name _____

Rotate the figure 90° clockwise and graph

 $(\quad , \quad) \longrightarrow (\quad , \quad)$
 $(\quad , \quad) \longrightarrow (\quad , \quad)$
 $(\quad , \quad) \longrightarrow (\quad , \quad)$
