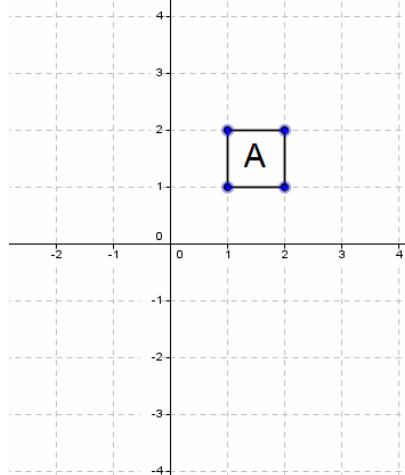
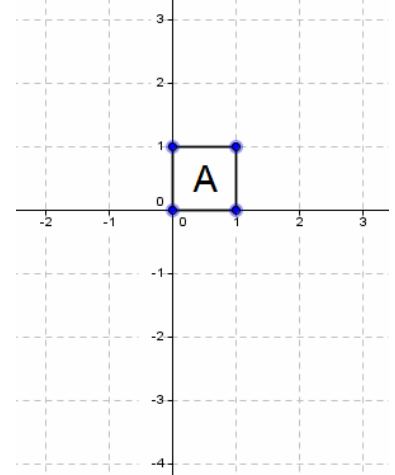


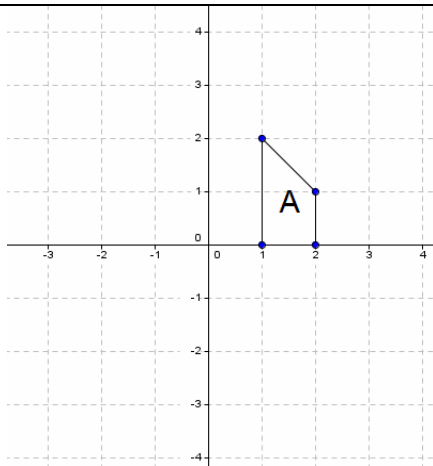
Plot and label the points A (3,3), B(0,0), C(-1,-3), D(-3,-3), E(-3,4), F(1,1) and G(-2,0)



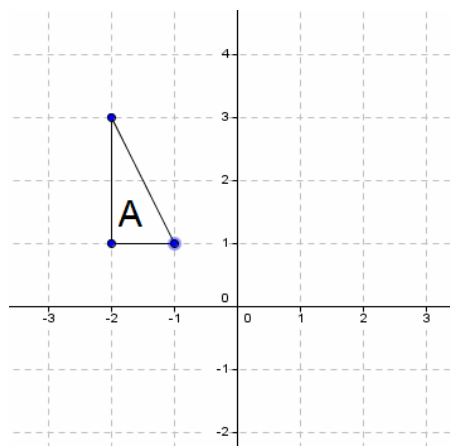
Rotate shape A 180° clockwise about (1,0) Label the shape B
 Translate shape A (2,1) Label the shape C
 Reflect shape A in the line $y = -1$ and label it D
 Reflect shape A in the x axis and label it E
 Enlarge the shape by a scale factor 2 about 1,1



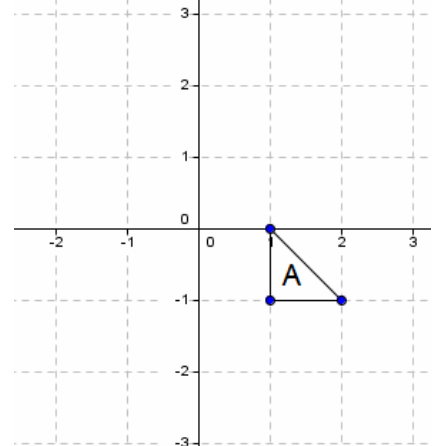
Rotate shape A 90° anticlockwise about (0,0) Label the shape B
 Translate shape A (2,-1) Label the shape C
 Reflect shape A in the line $x = 1$ and label it D
 Reflect shape A in the x axis and label it E
 Enlarge the shape by a scale factor 3 about 0,0



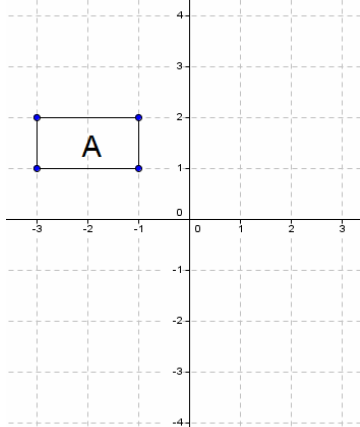
Rotate shape A 90° clockwise about (0,0) Label the shape B
 Translate shape A (1,-2) Label the shape C
 Reflect shape A in the line $x = 2$ and label it D
 Reflect shape A in the $y = 2$ and label it E
 Enlarge the shape by a scale factor 2 about 1,0



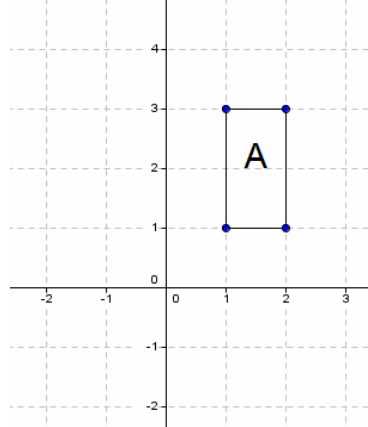
Rotate shape A 90° clockwise about (-1,0) Label the shape B
 Translate shape A (-1,-1) Label the shape C
 Reflect shape A in the line $y = 1$ and label it D
 Reflect shape A in the line $x = -1$ and label it E
 Enlarge the shape by scale factor 2 about -1,-1



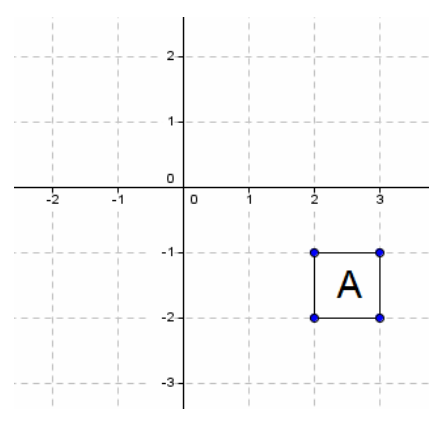
Rotate shape A 180° clockwise about (1,-1) Label the shape B
 Translate shape A (-3,0) Label the shape C
 Reflect shape A in the line $y = 1$ and label it D
 Reflect shape A in the line $x = 2$ and label it E
 Enlarge the shape by a scale factor 2 about 1,-1



Rotate shape A 180° clockwise about (0,-2) Label the shape B
 Translate shape A (1,-4) Label the shape C
 Reflect shape A in the line $y = -2$ and label it D
 Reflect shape A in the y axis and label it E
 Enlarge the shape by a scale factor 2 about -4,2



Rotate shape A 180° anticlockwise about (1,1) Label the shape B
 Translate shape A (0,-3) Label the shape C
 Reflect shape A in the line $y = -1$ and label it D
 Reflect shape A in the x axis and label it E
 Enlarge the shape by a scale factor 2 about -1,1



Rotate shape A 90° anticlockwise about (1,0) Label the shape B
 Translate shape A (-4,3) Label the shape C
 Reflect shape A in the line $y = -1$ and label it D
 Reflect shape A in the x axis and label it E
 Enlarge the shape by a scale factor 4 about 3,-2

Plot the points (1,0) (2,0) (1,1) and (2,1)
 Rotate shape A 180° clockwise about (0,0) Label the shape B
 Translate shape A (-2,1) Label the shape C
 Reflect shape A in the line $x = -1$ and label it D
 Reflect shape A in the x axis and label it E
 Enlarge the shape by a scale factor 2 about (1,0)

Plot the points (0,0) (3,0) and (0,1)
 Rotate shape A 90° clockwise about (1,0) Label the shape B
 Translate shape A (-3,-2) Label the shape C
 Reflect shape A in the line $x = 1$ and label it D
 Reflect shape A in the line $y = 0$ and label it E
 Enlarge the shape by a scale factor 2 about (0,0)

Make up your own example
 Plot the points
 Carry out one of each of the four transformations
 State the single transformation that maps Shape A onto Shape B,C,D and E