Interactive Computer Graphics

Lab 12 (09/11/2021)

Geometric transformations in computer graphics do not reduce the visual quality of images[transformations are done in object space], whereas they reduce visual quality in image processing as interpolation is involved[transformations are done in image space]

- 1. Using built-in functions in OpenGL , draw a polygon with 5 vertices of your choice and then do the following and display the results
 - a. Translate the polygon with vector (a,b)
 - b. Rotate the polygon with given theta
 - c. Scale the polygon with the given scaling factor
 - d. Reflect the polygon over lines x=0, y=0, x=y and x=-y
 - e. Shear the plogon with shearing factors s_x and s_y along the x and y direction