# Sample Question

Question:

(1) Consider a unit square with corners at (0, 0) and (1, 1). Suppose we have a polygonal path defined by the vertices (0, 1), (1, 1) and (1, 0), in that order, and we wish to transform it to the polygonal path defined by the vertices (0, -1), (-1, -1) and (-1,0). If we take the two squares as a pair of key frames, and suppose there are three frames to be interpolated in between these two key frames, Draw the intermediate results (i.e., three intermediate frames) if we linearly interpolate the positions of the vertices.
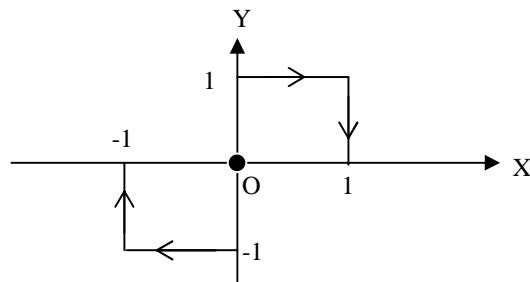
Answer:
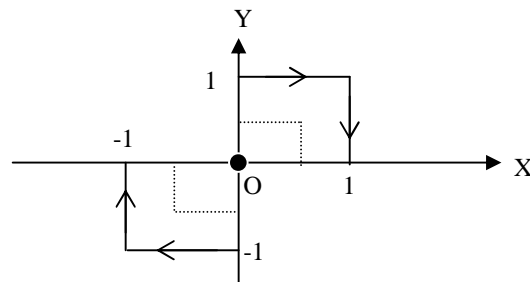
Answer: Key frame pair: upper right and lower left (solid line)
Three frames in-between interpolated: dashed line in first quadrant; origin O; and the dashed lines in the third quadrant