Exercise 3-6-1

A. J. Roberts, August 11, 2020

Which of the following illustrated transformations of the plane cannot be that of a linear transformation? In each illustration of a transformation T, the four corners of the blue unit square ((0,0),(1,0),(1,1), and (0,1)), are transformed to the four corners of the red figure (T(0,0),T(1,0),T(1,1), and T(0,1))—the 'roof' of the unit square clarifies which side goes where.

