

Math 155A - Fall 2022 - Quiz #6 - October 13

Name:

PID:

1. These questions concern composition of the transformations $R_{\pi/3, -\mathbf{k}}$ and $T_{\mathbf{i}}$. (Note the minus sign on the “ $-\mathbf{k}$ ” in the subscript.)

(a) Give the 4×4 matrix that represents $T_{\mathbf{i}} \circ R_{\pi/3, -\mathbf{k}}$ over homogeneous coordinates.

(b) Give the 4×4 matrix that represents $R_{\pi/3, -\mathbf{k}} \circ T_{\mathbf{i}}$ over homogeneous coordinates.