1. The problem concerns composition of the transformations $R_{\pi/3,1}$ and $T_{2k}$.

(a) Give the $4 \times 4$ matrix that represents $T_{2k} \circ R_{\pi/3,1}$ over homogeneous coordinates.

(b) Give the $4 \times 4$ matrix that represents $R_{\pi/3,1} \circ T_{2k}$ over homogeneous coordinates.