

QUIZ IX

Time: 10min

1. Use matrix multiplication to find the image of the vector $(-2, 1, 2)$ if it is rotated counterclockwise 30° about the x-axis.
2. Assume that $v_1 = (2, -2, 0)$, $v_2 = (6, 1, 4)$ and $v_3 = (2, 0, 4)$ are vectors in \mathbf{R}^3 that have their initial points at the origin. Determine whether the vectors lie in a plane.

Each problem is worth 5 pts.