

수시퀴즈 1차

1. Evaluate the determinant of the matrix A .

$$A = \begin{bmatrix} 1 & 2 & -4 \\ 3 & 5 & 1 \\ -2 & 0 & 1 \end{bmatrix}$$

2. Find a 2-dimensional unit vector \vec{v} such that \vec{v} is orthogonal to the vector $\langle 1, 1 \rangle$, and $\vec{v} \cdot \vec{w} > 0$ when $\vec{w} = \langle -2, 1 \rangle$.