

MA 262 - Quiz 6 (Lessons 13–16)

1. Compute the determinant

$$\begin{vmatrix} 0 & 3 & -1 \\ 5 & 2 & 4 \\ 1 & 4 & -2 \end{vmatrix}.$$

2. Is the set of vectors

$$W = \left\{ \begin{bmatrix} x \\ y \\ z \end{bmatrix} \mid 2x - 3y + 2z = 3 \right\}$$

a vector subspace of \mathbb{R}^3 ? (Justify your answer!)