Question 1: Solve the following system of equations: $x + 2y = 3, 2x + y = 3$.

Question 2: Compute the determinant of the matrix $\begin{pmatrix} 1 & 4 & -2 \\ 0 & 3 & -1 \\ 0 & 0 & 2 \end{pmatrix} \in M_{3\times3}(\mathbb{R})$.