EXERCISES OF SECTION 3.1

Question 1. Compute det $\begin{bmatrix} 0 & 0 & 1 \\ 0 & 2 & 0 \\ 3 & 0 & 0 \end{bmatrix}$.

Question 2. Compute det(A), where

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

Question 3. If two rows of A are the same, then |A| =? **Question 4.** Suppose that A is an $n \times n$ matrix, |cA| =?