

American University of Beirut
Second Semester 2003
Math 204
Quiz II ✓



Name:

ID Number:

Section:

(30%) Part One: 10 Multiple choice questions, with 3% for each correct .

Circle the correct answer:

Consider $A = \begin{pmatrix} 1 & -2 \\ 2 & 1 \end{pmatrix}$, $B = \begin{pmatrix} -2 & 1 \\ 5 & 0 \\ 7 & -2 \end{pmatrix}$, $C = \begin{pmatrix} 3 \\ 5 \\ -2 \end{pmatrix}$. Answer questions 1-6.

1. The determinant of the matrix A is equal to:

- a) 3 b) -4 c) -3 d) 5

2. $A^T =$

- a) $\begin{pmatrix} -1 & 2 \\ -2 & 1 \end{pmatrix}$ b) $\begin{pmatrix} -1 & 1 \\ 2 & 2 \end{pmatrix}$ c) $\begin{pmatrix} 1 & 2 \\ -2 & 1 \end{pmatrix}$ d) $\begin{pmatrix} -1 & 2 \\ 1 & 2 \end{pmatrix}$

3. Let I be the identity matrix of order 2 then $A - 2I =$

- a) $\begin{pmatrix} -3 & 1 \\ 2 & 0 \end{pmatrix}$ b) $\begin{pmatrix} -3 & -2 \\ 2 & -1 \end{pmatrix}$ c) $\begin{pmatrix} -1 & -2 \\ 2 & -1 \end{pmatrix}$ d) $\begin{pmatrix} -3 & 2 \\ 1 & 0 \end{pmatrix}$

4. The cofactor of the element in the first row ,second column of A is:

- a) -2 b) -1 c) 2 d) 1

5. The dimension of the matrix $B^T \cdot C$ is :

- a) 3×2 b) 2×3 c) 2×1 d) 1×2

6. The first row of the matrix B.A is :

- a) (4 5) b) (0 5) c) (4 0) d) (3 -2)

