

**MacEwan University**  
**Math 125: Linear Algebra I**  
**Assignment #3.**

**Due: March 13th, 2024 at 11:59 pm**

**Problem 1.** Find the determinants using cofactor expansion along any row or column.

$$(a) \det(A) = \begin{vmatrix} 3 & -1 & 0 \\ -2 & 3 & 4 \\ 1 & 3 & 5 \end{vmatrix}$$

$$(b) \det(B) = \begin{vmatrix} 2 & 3 & 0 & -1 \\ 0 & 1 & 3 & 4 \\ -3 & 0 & 0 & 1 \\ 1 & -1 & 2 & 5 \end{vmatrix}$$

**Problem 2.** Let  $\det(A) = 9$  where  $A$  is the matrix below

$$A = \begin{bmatrix} x & y & z \\ a & b & c \\ m & n & p \end{bmatrix}$$

Evaluate the determinants of the following matrices using determinant properties:

$$(a) B = \frac{1}{3}A$$

$$(b) C = \begin{bmatrix} a & b & c \\ m & n & p \\ x & y & z \end{bmatrix}$$

$$(c) D = \begin{bmatrix} x - 4a & y - 4b & z - 4c \\ a & b & c \\ 2m & 2n & 2p \end{bmatrix}$$

**Problem 3.** Use Properties of determinants to evaluate the determinant below.

$$\det(A) = \begin{vmatrix} -1 & 3 & 1 & 2 \\ 1 & -2 & 4 & 5 \\ 0 & 1 & 5 & 6 \\ -2 & 6 & 2 & 7 \end{vmatrix}$$

**Problem 4.** We have a theorem stating that a square matrix  $A$  is invertible if and only if  $\det(A) \neq 0$ . Use this to find  $k$  such that  $A$  below is invertible.

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

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**Ying Liu**

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