

DAWSON COLLEGE
Mathematics Department
Final Examination
201-105 –DW Linear Algebra
December 17th, 2009

1. (6 marks) Solve the linear system by Gauss-Jordan method

$$\begin{cases} x_1 + x_2 + 3x_3 + 4x_4 = 12 \\ -2x_1 - x_2 - 5x_3 - 7x_4 = -19 \\ x_1 - x_2 + 2x_3 + 2x_4 = 5 \end{cases}$$

2. (5 marks) For which values of k does the following system have exactly one solution, no solution, infinitely many solutions?

$$\begin{cases} x + 2y + z = 3 \\ 2x + 5y + 3z = 8 \\ -x - 4y + (k-3)z = k-8 \end{cases}.$$

3. (6 marks) Use the inverse matrix to solve the system of linear equations $\begin{cases} x - 2y + z = 1 \\ 2x + y - z = -1 \\ x + y - z = -2 \end{cases}.$

4. (3 marks) Let the matrix A be invertible matrix, such that $4A^3 - 3A = I$. Find A^{-1} .

5. (4 marks) Use the Cramer's rule to solve the system $\begin{cases} x - 2y + z = 1 \\ 2x + y - z = -1 \\ x + y - z = -2 \end{cases}$ for " x " only.

6. (6 marks) Given the following matrices $A = \begin{bmatrix} 1 & 2 \\ 3 & 5 \end{bmatrix}$ and $B = \begin{bmatrix} 0 & -1 \\ -4 & 1 \\ 0 & 2 \end{bmatrix}$.

Find, if possible a) $(-BA^2)^T$ b) $3A^{-1}B$ c) $tr(\det(A)A^T - 3I)$

7. (3 marks) Find the matrix X , if $(X^T + 2I)^{-1} = \begin{bmatrix} 1 & 2 \\ 3 & 5 \end{bmatrix}$.

8. (3 marks) Evaluate the determinant $\begin{vmatrix} 2 & 0 & 3 & -2 \\ 1 & 5 & -1 & 0 \\ -4 & 1 & -6 & 4 \\ -2 & -3 & 4 & 0 \end{vmatrix}$

9. (6 marks) Let A and B be (4×4) matrices, such that $\det(A) = 2$, $\det(B) = 3$. Find

a) $\det(2A^{-1}B^T)$ b) $\det((BA^3)^{-1})$

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