



مدونة المناهج السعودية

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الموقع التعليمي لجميع المراحل الدراسية

في المملكة العربية السعودية



TAIBAH UNIVERSITY
COLLEGE OF SCIENCE
MATHEMATICS DEPARTMENT

HOMEWORK 1

Course : Linear Algebra 1
Due Date : 24/11/2018

Name :

ID :

Name :

ID :

Name :

ID :

Exercises	Marks	TOTAL
Ex. 1	<input type="text"/>	
Ex. 2	<input type="text"/>	
Ex. 3	<input type="text"/>	
Ex. 4	<input type="text"/>	
Ex. 5	<input type="text"/>	

Let $A = \begin{pmatrix} 1 & 2 \\ -2 & 4 \end{pmatrix}$ and $B = \begin{pmatrix} 4 & 0 \\ 1 & 1 \end{pmatrix}$

(1) Find AB and BA .

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(2) Let $C = 3B - I_2$. Find C^T .

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(3) Find A^{-1} and $(A^T)^{-1}$.

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(4) Find a matrix F such that $(2F - A)^T = B$.

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(2) Let $A = \begin{pmatrix} 1 & 1 & 2 & -5 \\ 2 & 5 & -1 & -9 \\ 2 & 1 & -1 & 3 \\ 1 & -3 & 2 & 7 \end{pmatrix}$

(i) Evaluate $\det A$ and $\det A^T$

(ii) Is A a singular matrix?

