KFUPM – Department of Mathematics and Statistics – Term 121

MATH 260

QUIZ # 1 Code 1 (Duration = 15 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

Use Gauss-Jordan elimination to find the inverse (if it exists) of the matrix $\begin{pmatrix} 2 & 1 & 1 \\ 1 & 0 & 1 \\ 2 & 0 & 1 \end{pmatrix}$

Exercise 2 (5 points)

Let A and B be two **symmetric matrices**. Which one of the following assertions is true? (Only one answer is accepted=**Check only one box**)

1	AB is symmetric	
2	BA is symmetric	
3	ABA is symmetric	
4	A+AB is symmetric	
5	B+BA is symmetric	

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QUIZ # 1 Code 2 (Duration = 15 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

Use Gauss-Jordan elimination to find the inverse (if it exists) of the matrix $\begin{pmatrix} 3 & 1 & 0 \\ 1 & 1 & 0 \\ 1 & 1 & 1 \end{pmatrix}$

Exercise 2 (5 points)

Let M and N be two **symmetric matrices**. Which one of the following assertions is true? (Only one answer is accepted=**Check only one box**)

1	NMN is symmetric	
2	MN is symmetric	
3	NM is symmetric	
4	N+NM is symmetric	
5	M+MN is symmetric	