MAT 211: Linear Algebra Problem Set 5

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Problem 1. (5+5 points) Compute the inverses of the following matrices:

[3	5	0	
1	2	0	,
0	0	1	
[1	0	0	
$\begin{bmatrix} 1\\ 0 \end{bmatrix}$	$\begin{array}{c} 0 \\ 2 \end{array}$	$\begin{bmatrix} 0\\1 \end{bmatrix}$	

Problem 2. (5 points) Using Problem 1, find the 3×3 matrix X such that

3	5	0		[1	0	0		[1	0	4	
1	2	0	X	0	2	1	=	0	1	0	
0	0	1		0	3	2		2	0	1	

Due Date: Thursday, Oct 21.

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