2

1. Consider the following system of linear equations:

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a) Solve this system using the inverse of its coefficient matrix.
b) Use Gauss-Jordan elimination to solve the homogeneous system whose
coefficient matrix is the augmented matrix of the given system.
c) Solve the system whose coefficient matrix is the augmented matrix of the given
system and which has a particular solution ሺͳǡെͳǡെͳǡͳሻǤ

2. Consider the following system:

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For what values of k
For what valuesG

For what values

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892302 792 n
BT
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1 0 0 1 81.144 511.03 Tm

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3
5. Given the points ܣሺെ͵ǡͲǡെͳሻܤሺെʹǡͳǡͲሻǤ
a) Find the point C on the YZ-plane (i.e. the plane spanned by ࢐࢑ (such the points A, B
and C are collinear .
b) Find the distance between the origin and the line passing through the points A and