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Systems of Equations Solving Linear
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Linear Algebra - Questions with Solutions Consider the system of equations x+y??z = a x?? +2z = b 3x+y = c a) Find the general solution of the homogeneous equation. b) If a = 1, b = 2, and c = 4, then Page 4/12

a particular solution of the inhomogeneous equa- tions is x = 1, y = 1, z = 1. Findthem ostgeneral solution of these inhomogeneous equations.

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Gilbert Strang are loaded with applications.

Exercises and Problems in Linear Algebra Linear Algebra Igor Yanovsky, 2005 5 Theorem. V and W are isomorphic, there is a bijective linear map L: V! W. Proof.) If V and W are isomorphic we can ?nd linear maps L: V! W and K: W! V so that LK = IW and KL = IV. Then for any y = IW(y) = L(K(y)) so we can let x = K(y), which means L is onto. If L(x1) = L(x2) then x1 = IV(x1) = KL(x1) = KL(x2) = IV(x2) = x2, which means L is 1;1.

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This book is the ?rst part of a three-part series titled Problems, Theory and Solutions in Linear Algebra. This ?rst part treats vectors in Euclidean space as well as matrices, matrix algebra and systems of Page 6/12

linear equations. We solve linear systems by the use of Gauss elimination and by other means, and investigate the properties of these systems in

Problems, Theory and Solutions in Linear Algebra

(b) (5 points) Find all solutions to the system of linear equations ?4x +5z = ?2?3x ?3y +5z = 3 ?x +2y +2z = ?1 Answer: This system is $A \sim x = \sim b$, where A is as in the previous part and $\sim b = ?2 \ 3 \ ?1$. Hence $x y z = A?1 \sim b = ?4 10 ?15 1 ?3 5 ?3 8$?12 ?2 3 ?1 = 53 ?16 42 .4.

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Wellesley-Cambridge Press, 2009. ISBN: 9780980232714. ...

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