Name : _____ Date : _____

Solving Systems of Equations by Substitution

1) $y = \frac{7}{4}x - 3$
$y = 4$

2) $y = -\frac{1}{4}x + 6$
$y = 4$

3) $6x - 5y = 22$
$y = -8$

4) $4x - 7y = 5$
$9x - 7y = -15$

5) $-5x + 9y = -12$
$3x + 2y = 22$

6) $y = -\frac{2}{5}x - 2$
$y = -4$

7) $y = -\frac{3}{4}x + 4$
$y = -\frac{1}{2}x - 1$

8) $y = -\frac{4}{9}x - 3$
$y = -\frac{7}{5}x - 3$

9) $y = \frac{3}{5}x + 2$
$y = -\frac{1}{3}x + 2$

10) $2x + 3y = -1$
$3x + 4y = -4$

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Liying Dong

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theory in particular divisibility and diophantine equations In each topic brief theoretical discussions are followed by carefully worked out examples of increasing difficulty and by exercises which range from routine to rather more challenging problems While it emphasizes some methods that are not usually covered in beginning university courses the book nevertheless teaches techniques and skills which are useful beyond the specific topics covered here With approximately 330 examples and 760 exercises **Methods of Solving Systems of Linear Equations** John Scott Parsons,1964 *Chapter 2 Solving Systems of Linear Equations* ,2004 *Jordan Canonical Form* Steven H. Weintraub,2008-08-28 Jordan Canonical Form JCF is one of the most important and useful concepts in linear algebra In this book we develop JCF and show how to apply it to solving systems of differential equations We first develop JCF including the concepts involved in it eigenvalues eigenvectors and chains of generalized eigenvectors We begin with the diagonalizable case and then proceed to the general case but we do not present a complete proof Indeed our interest here is not in JCF per se but in one of its important applications We devote the bulk of our attention in this book to showing how to apply JCF to solve systems of constant coefficient first order differential equations where it is a very effective tool We cover all situations homogeneous and inhomogeneous systems real and complex eigenvalues We also treat the closely related topic of the matrix exponential Our discussion is mostly confined to the 2 by 2 and 3 by 3 cases and we present a wealth of examples that illustrate all the possibilities in these cases and of course exercises for the reader Table of Contents Jordan Canonical Form Solving Systems of Linear Differential Equations Background Results Bases Coordinates and Matrices Properties of the Complex Exponential **Jordan Canonical Form** Abraham Ungar,Greg Anderson,Leon Simon,Peter Gilkey,Peter Klein,Steven Weintraub,Alec Kercheval,Miguel Brozos-Vázquez,Eduardo García-Río,Stana Nikcevic,Ramón Vásquez-Lorenzo,2008 Jordan Canonical Form JCF is one of the most important and useful concepts in linear algebra In this book we develop JCF and show how to apply it to solving systems of differential equations We first develop JCF including the concepts involved in it eigenvalues eigenvectors and chains of generalized eigenvectors We begin with the diagonalizable case and then proceed to the general case but we do not present a complete proof Indeed our interest here is not in JCF per se but in one of its important applications We devote the bulk of our attention in this book to showing how to apply JCF to solve systems of constant coefficient first order differential equations where it is a very effective tool We cover all situations homogeneous and inhomogeneous systems real and complex eigenvalues We also treat the closely related topic of the matrix exponential Our discussion is mostly confined to the 2 by 2 and 3 by 3 cases and we present a wealth of examples that illustrate all the possibilities in these cases and of course exercises for the reader Table of Contents Jordan Canonical Form Solving Systems of Linear Differential Equations Background Results Bases Coordinates and Matrices Properties of the Complex Exponential

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