Chapter 1

Systems of Linear Equations and Matrices

Section 1.1

Exercise Set 1.1

1. (a), (c), and (f) are linear equations in x_1, x_2, and x_3.
   (b) is not linear because of the term $x_1 x_3$.
   (d) is not linear because of the term x_1^{-2}.
   (e) is not linear because of the term $x_1^{3/5}$.

3. (a) and (d) are linear systems.
   (b) is not a linear system because the first and second equations are not linear.
   (c) is not a linear system because the second equation is not linear.

5. By inspection, (a) and (d) are both consistent; $x_1 = 3$, $x_2 = 2$, $x_3 = -2$, $x_4 = 1$ is a solution of (a) and $x_1 = 1$, $x_2 = 3$, $x_3 = 2$, $x_4 = 2$ is a solution of (d). Note that both systems have infinitely many solutions.

7. (a), (d), and (e) are solutions.
   (b) and (c) do not satisfy any of the equations.

9. (a) $7x - 5y = 3$

$$x = \frac{5}{7}y + \frac{3}{7}$$

Let $y = t$. The solution is

$$x = \frac{5}{7}t + \frac{3}{7}$$
$$y = t$$

(b) $-8x_1 + 2x_2 - 5x_3 + 6x_4 = 1$

$$x_1 = \frac{1}{4}x_2 - \frac{5}{8}x_3 + \frac{3}{4}x_4 - \frac{1}{8}$$

Let $x_2 = r$, $x_3 = s$, and $x_4 = t$. The solution is

$$x_1 = \frac{1}{4}r - \frac{5}{8}s + \frac{3}{4}t - \frac{1}{8}$$
$$x_2 = r$$
$$x_3 = s$$
$$x_4 = t$$

11. (a) $\begin{bmatrix} 2 & 0 & 0 \\ 3 & -4 & 0 \\ 0 & 1 & 0 \end{bmatrix}$ corresponds to:

$$2x_1 = 0$$
$$3x_1 - 4x_2 = 0$$
$$x_2 = 1$$

Chapter Linear Systems Dsp

John G. Proakis,Vinay K. Ingle

Chapter Linear Systems Dsp:

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