

Answers to Odd-Numbered Exercises

Chapter 1

Section 1.1, page 107

1. The solution is $\text{Col. } x_2 = (-8, 3)$, or simply $(-8, 3)$.
3. $(2, 1)$.
5. Replace Row 2 by its sum with -4 times Row 1, and then replace Row 3 by its sum with 3 times Row 1.
7. The solution set is empty.
9. $(14, 21, 14, 4)$ 11. Inconsistent
13. $(5, 9, -10)$ 15. Inconsistent
17. Calculations show that the system is inconsistent, so the three lines have no point in common.
19. $k \neq 2$ 21. All k
23. Make a statement. True only if the statement is always true. Giving you the answers here would defeat the purpose of the true-false questions, which is to help you learn to read the text carefully. The Study Guide will tell you where to look for the answers, but you should not consult it until you have made an honest attempt to find the answers yourself.
25. $k = 2g \Rightarrow k = 0$
27. The row reduction of $\begin{bmatrix} a & b & f \\ c & d & g \end{bmatrix} \Rightarrow \begin{bmatrix} a & b & f \\ 0 & d - b\left(\frac{c}{a}\right) & g - f\left(\frac{c}{a}\right) \end{bmatrix}$ shows that $d - b\left(\frac{c}{a}\right)$ must be nonzero, since f and g are arbitrary. Otherwise, for some choices of f and g the second row would correspond to an equation of the form $0 = q$, where q is nonzero. Then $ad \neq bc$.
29. Swap Row 1 and Row 3; swap Row 1 and Row 3.
31. Replace Row 2 by Row 2 $+$ (-4) Row 1; replace Row 3 by Row 3 $+$ (4) Row 1.
33. Review Practice Problem 1 and then write a solution. The Study Guide has a solution.

Section 1.2, page 111

1. Reduced solution form: a and b. Echelon form: d. Not in solution form: c.
3. $\begin{bmatrix} 1 & 2 & 0 & -4 \\ 0 & 0 & 1 & 4 \\ 0 & 0 & 0 & 0 \end{bmatrix}$

Proceeds 1 and 3: $\begin{bmatrix} 1 & 2 & 4 & 8 \\ 0 & 4 & 8 & 8 \\ 0 & 4 & 8 & 12 \end{bmatrix}$

5. $\begin{bmatrix} 1 & 2 \\ 0 & 4 \end{bmatrix}$ $\begin{bmatrix} 1 & 2 \\ 0 & 0 \end{bmatrix}$ $\begin{bmatrix} 0 & 4 \\ 0 & 0 \end{bmatrix}$
7. $\begin{cases} x_1 = -3 - 2x_2 \\ x_2 \text{ is free} \\ x_3 = 3 \end{cases}$ 9. $\begin{cases} x_1 = 3 + 2x_2 \\ x_2 \text{ is free} \\ x_3 = 3 + 2x_2 \end{cases}$
11. $\begin{cases} x_1 = \frac{1}{2}x_2 - \frac{1}{2}x_3 \\ x_2 \text{ is free} \\ x_3 \text{ is free} \end{cases}$
13. $\begin{cases} x_1 = 3 + 3x_2 \\ x_2 = 2 + 4x_3 \\ x_3 \text{ is free} \\ x_4 = 4 - 7x_3 \\ x_5 \text{ is free} \end{cases}$

Note: The Study Guide discusses the common mistake $x_1 = 0$.

15. a. Consistent, with many solutions.
b. Consistent, with many solutions.
17. All k .
19. a. Inconsistent when $k = 2$ and $k \neq 0$.
b. Unique solution when $k \neq 2$.
c. Many solutions when $k = 2$ and $k = 0$.
21. Read the text carefully, and write your answers before you consult the Study Guide. Remember, a statement is true only if it is true in all cases.
23. Since there are four pivots (one in each column of the coefficient matrix), the augmented matrix must reduce to the form

$$\begin{bmatrix} 1 & 0 & 0 & 0 & a \\ 0 & 1 & 0 & 0 & b \\ 0 & 0 & 1 & 0 & c \\ 0 & 0 & 0 & 1 & d \end{bmatrix}$$

and so

$$\begin{aligned} x_1 &= a \\ x_2 &= b \\ x_3 &= c \\ x_4 &= d \end{aligned}$$

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