

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. Thus $ad \neq bc$.
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 2: $\begin{bmatrix} 1 & 2 & 4 & 8 \\ 0 & 4 & 8 & 8 \\ 0 & 0 & 0 & 12 \end{bmatrix}$

5. $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ $\begin{bmatrix} 1 & 0 \\ 0 & 0 \end{bmatrix}$ $\begin{bmatrix} 0 & 1 \\ 0 & 0 \end{bmatrix}$
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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Making Schools Better for Disadvantaged Students Stephen Gorard, Beng Huat See, Nadia Siddiqui, 2022-11-25 2023 BERA Educational Research Book of the Year Around the world governments charities and other bodies are concerned with improving education especially for the lowest attaining and most disadvantaged students Making Schools Better for Disadvantaged Students presents detailed research into how poverty affects student segregation and underachievement in schools It contains the first ever large scale evaluation of how funding can best be used to lower the poverty attainment gap for disadvantaged students Drawing on a wealth of empirical research from England India and Pakistan as well as worldwide reviews of relevant studies the book presents high quality evidence on the impact of funding policy initiatives such as the Pupil Premium funding in England and the many variations of similar schemes worldwide It analyses education measures which have been put in place and discusses ways in which these can be used efficiently and fairly to allocate funding to students who are persistently at risk of underachievement The book is unique in synthesising many forms of evidence from around the world and finding a definition of educational disadvantage that can be used fairly across different contexts Offering significant implications for ways to improve educational outcomes for disadvantaged students the book will be essential reading for students of education policy sociology of education and educational practices and all researchers school leaders and policy makers working in this area

Neurocognitive Development: Disorders and Disabilities, 2020-09-25 This is one volume of a two volume work on neurocognitive development focusing separately on normative and non normative development The disorders and disabilities volume focuses on disorders of intellectual abilities language learning memory as well as psychiatric developmental disorders The developmental aspects of neurological diseases in children is also covered Chapters discuss when and how these disorders develop the genetics and neurophysiology of their operation and their evaluation and assessment in clinical practice Assessment treatment and long term outcome are provided as well as advances in methods and tools for assessment This book will serve as a comprehensive reference to researchers in cognitive development in neuroscience psychology and medicine as well as to clinicians and allied health professionals focused on developmental disabilities child neurologists pediatric neuropsychologists child psychiatrists speech and language therapists and occupational therapists Summarizes research on neurocognitive developmental disorders and disabilities Includes disorders of intellectual abilities language learning memory and more Separately covers developmental aspects of neurological diseases in children Features advances in methods and tools of assessment Reviews patient care rehabilitation

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