

Elementary Linear Algebra: A Matrix Approach (second edition)
Suggested Minimal Assignments

Chapter 1 Matrices, Vectors, and Systems of Linear Equations

Section Exercises

- 1.1 1–11 odd, 25–31 odd, 33, 35
- 1.2 1–9 odd, 17–23 odd, 29–43 odd, 71, 75
- 1.3 1–11 odd, 23–27 odd, 39–49 odd, 55
- 1.4 1–11 odd, 17–21 odd, 27, 29, 35, 37, 47, 51, 73–79 odd
- 1.5 Leontief model: 7–21 odd
Current flow: 25–29 odd
- 1.6 1–7 odd, 17–43 odd, 65, 67
- 1.7 1–25 odd, 31–35 odd, 39–43 odd, 51, 53, 57, 83, 85

Chapter 2 Matrices and Linear Transformations

Section Exercises

- 2.1 1–19 odd, 25–31 odd
- 2.2 Leslie matrices: 11–15 odd
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- 2.3 1–5 odd, 9, 11, 15–25 odd, 29, 53
- 2.4 1–9 odd, 19–23 odd, 57, 59
- 2.5 1–5 odd, 13, 15, 21, 23, 35, 37
- 2.6 1–5 odd, 9–13 odd, 17, 19, 25, 27
- 2.7 1–11 odd, 21–29 odd, 33, 57, 61–67 odd
- 2.8 1–5 odd, 13–19 odd, 25–29 odd, 33–37 odd, 61, 63 69–75, 83, 85

Chapter 3 Determinants

Section Exercises

- 3.1 1–5 odd, 9–15 odd, 21, 37–41 odd, 65
- 3.2 1, 3, 11–15 odd, 25, 27, 61, 63

Chapter 4 Subspaces and Their Properties

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- 4.2 1–13 odd, 17, 19, 25, 27, 53–57 odd, 67, 83
- 4.3 1–7 odd, 13–19 odd, 25, 27, 33–39 odd
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- 4.5 1–7 odd, 11–17 odd, 39, 43 49, 51, 55 59

Chapter 5 Eigenvalues, Eigenvectors, and Diagonalization

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- 5.1 1–7 odd, 13–19 odd, 25, 27, 33, 35
- 5.2 1–7 odd, 13–19 odd, 33, 35, 41, 73
- 5.3 1–7 odd, 13–19 odd, 49, 51, 73, 75
- 5.4 1–5 odd, 9–15 odd, 59, 61
- 5.5 Markov chains: 13–17 odd, 21–25 odd, 29, 31
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Difference equations: 71–77 odd, 79

Chapter 6 Orthogonality

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- 6.1 1–13 odd, 19, 21, 27, 29, 35, 37, 41, 43, 49–53 odd
- 6.2 1–21 odd
- 6.3 1–5 odd, 9, 11, 17–21 odd
- 6.4 1–9 odd
- 6.5 1–15 odd
- 6.6 1–9 odd, 13–19 odd
- 6.7 1–7 odd, 21, 23, 29, 31, 37, 41, 47, 53
- 6.8 1–7 odd, 38
- 6.9 1–9 odd, 13–19 odd, 25, 27, 31, 39, 41, 45

Chapter 7 Vector Spaces

Section Exercises

- 7.1 1–15 odd, 60, 61, 67, 69, 71
- 7.2 1–15 odd, 25–35 odd
- 7.3 1–29 odd, 51–57 odd
- 7.4 1–19 odd, 40, 41
- 7.5 1–23 odd, 75