

Chapter 4 Answers

Practice 4-1

1. $3 \times 1; -3$ 2. $3 \times 4; 5$ 3. $2 \times 3; 12$ 4. $3 \times 3; q$

5. $3 \times 2; 4$ 6. $1 \times 4; -4$

7. $\begin{bmatrix} 17.6 & 8.3 & 5.4 & 8.7 & 4.0 & 6.6 & 3.5 \\ 9.5 & 5.1 & 4.5 & 6.4 & 2.6 & 5.1 & 2.7 \end{bmatrix}$

8. 2×7 9. 9.5; percent unemployment in construction in June, 1996 10. 6.6; percent unemployment in services in June, 1992 11. Answers may vary.

Sample: $M = \begin{bmatrix} 3900 & 3300 \\ 400 & 150 \\ 100 & 50 \end{bmatrix}$ 12. 3×2

13. number of days lost to strikes per 1,000 employees in Greece in the given years 14. number of days lost to strikes per 1,000 employees in the United States from 1990 to 1994

Practice 4-2

1. $a = 5; b = -\frac{7}{2}; c = 12; d = 7$ 2. $c = \frac{5}{3}; y = -7;$

$x = 4; z = \frac{7}{2}; a = -3; b = 0$ 3. $x = 3; z = -2$

4. $M = \begin{bmatrix} 37 & 56 \\ 0 & 76 \\ 87 & 102 \\ 6 & 27 \end{bmatrix}; F = \begin{bmatrix} 23 & 58 \\ 93 & 82 \\ 0 & 34 \\ 18 & 29 \end{bmatrix}$

5. $M - F = \begin{bmatrix} 14 & -2 \\ -93 & -6 \\ 87 & 68 \\ -12 & -2 \end{bmatrix}$ 6. $\begin{bmatrix} -2 & 3 \\ 2 & 0 \end{bmatrix}$

7. $\begin{bmatrix} 8 & -5 & -6 \\ 3 & -8 & 12 \\ 4 & -12 & -18 \end{bmatrix}$ 8. $\begin{bmatrix} -2 & 2 \\ -6 & 5 \\ -4 & -2 \end{bmatrix}$ 9. $\begin{bmatrix} -7 \\ -4 \\ 23 \end{bmatrix}$

10. $\begin{bmatrix} 8 & 11 \\ 13 & 14 \\ 4 & 11 \end{bmatrix}$ 11. $\begin{bmatrix} -27 & 101 & -2 \\ -19 & 93 & -1 \\ -8 & -1 & 20 \end{bmatrix}$ 12. $\begin{bmatrix} -1 & -4 \\ 0 & 4 \end{bmatrix}$

13. $\begin{bmatrix} 0 & -4 & 3 \\ -4 & -2 & 5 \end{bmatrix}$ 14. not equal; dimensions are different

15. equal; dimensions and corresponding elements are equal

Practice 4-3

1. product undefined 2. $\begin{bmatrix} 6 & -2 \\ 6 & 0 \end{bmatrix}$ 3. $\begin{bmatrix} 4 & 1 \\ -3 & 7 \end{bmatrix}$

4. difference undefined 5. $\begin{bmatrix} 4 & -1 \\ 3 & 1 \end{bmatrix}$ 6. $\begin{bmatrix} 1 & -1 \\ 3 & -2 \end{bmatrix}$

7. product undefined 8. $\begin{bmatrix} 0 & 2 \\ -2 & 1 \\ -1 & 0 \end{bmatrix}$ 9. product undefined

10. $\begin{bmatrix} 16 \\ 20 \end{bmatrix}$ 11. $\begin{bmatrix} 3 & -3 & -1 \\ 2 & -2 & 4 \end{bmatrix}$

12. product undefined 13. $\begin{bmatrix} 7 & 3 \\ 0 & 2 \end{bmatrix}$ 14. $\begin{bmatrix} 2 & 0 \\ 0 & 2 \end{bmatrix}$

15. product undefined 16. $\begin{bmatrix} 0 & 0.4 \\ -0.4 & 0.2 \\ -0.2 & 0 \end{bmatrix}$

17. $\begin{bmatrix} \frac{3}{4} & -\frac{3}{4} & -\frac{1}{4} \\ \frac{1}{2} & -\frac{1}{2} & 1 \end{bmatrix}$ 18. $\begin{bmatrix} 0.5 & -0.5 & -2.5 \\ 2.5 & -2.5 & -5.5 \end{bmatrix}$

19. product undefined 20. product undefined

21. $3 \times 4; \begin{bmatrix} 1 & 2 & 3 & 4 \\ 2 & 4 & 6 & 8 \\ 3 & 6 & 9 & 12 \end{bmatrix}$ 22. $2 \times 2; \begin{bmatrix} 71 & 34 \\ 49 & 56 \end{bmatrix}$

23. $2 \times 2; \begin{bmatrix} 4 & 5 \\ 5 & 4 \end{bmatrix}$ 24. $\begin{bmatrix} 72 & 24 \\ 60 & 72 \\ 0 & -12 \end{bmatrix}$

25. $\begin{bmatrix} -13 & 19 & -8 \\ -24 & 42 & -14 \\ -5 & 8 & -3 \end{bmatrix}$ 26. $\begin{bmatrix} -1 & 1 & 1 \\ -6 & 5 & 5 \end{bmatrix}$ 27. $\begin{bmatrix} 11 & 10 \\ 11 & 10 \\ 11 & 10 \end{bmatrix}$

28. $\begin{bmatrix} 8 & 14 & 14 & 12 \\ 16 & 8 & 8 & 10 \\ 18 & 18 & 20 & 14 \end{bmatrix}$ 29. $\begin{bmatrix} 51 & 24 \\ 117 & 55 \end{bmatrix}$ 30. $\begin{bmatrix} -3 & \frac{8}{3} \\ \frac{5}{3} & -2 \end{bmatrix}$

31. $\begin{bmatrix} 2 & 2 \\ 4 & \frac{20}{3} \end{bmatrix}$

Practice 4-4

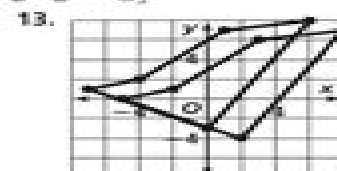
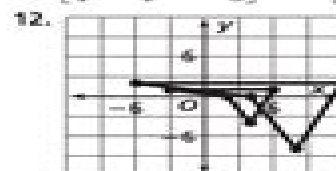
1. $\begin{bmatrix} 44 & 44 & -33 \\ 22 & -22 & 0 \end{bmatrix}$ 2. $\begin{bmatrix} 5 & 5 & -2 \\ 6 & 2 & 4 \end{bmatrix}$

3. $\begin{bmatrix} 6 & 6 & -4.5 \\ 3 & -3 & 0 \end{bmatrix}$ 4. $\begin{bmatrix} 6 & 6 & -1 \\ -4 & -8 & -6 \end{bmatrix}$

5. $\begin{bmatrix} 2 & -2 & 0 \\ 4 & 4 & -3 \end{bmatrix}$ 6. $\begin{bmatrix} 2 & -2 & 0 \\ -4 & -4 & 3 \end{bmatrix}$

7. $\begin{bmatrix} -2 & 2 & 0 \\ 4 & 4 & -3 \end{bmatrix}$ 8. $\begin{bmatrix} 3 & 3 & -4 \\ 0 & -4 & -2 \end{bmatrix}$ 9. $\begin{bmatrix} 1 & 1 & -6 \\ 3 & -1 & 1 \end{bmatrix}$

10. $\begin{bmatrix} 2 & 2 & -1.5 \\ 1 & -1 & 0 \end{bmatrix}$ 11. $\begin{bmatrix} 4 & 4 & -3 \\ -2 & 2 & 0 \end{bmatrix}$



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