

Answer Key

Practice B

1. $A: 3 \times 2$; $B: 1 \times 3$; AB is not defined.

2. $A: 2 \times 3$; $B: 3 \times 3$; AB is defined; $AB: 2 \times 3$

3. $A: 4 \times 1$; $B: 1 \times 2$; AB is defined; $AB: 4 \times 2$

4. $A: 4 \times 2$; $B: 3 \times 4$; AB is not defined. 5. [11]

6. $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ 7. $\begin{bmatrix} -1 & 3 \\ 0 & 0 \\ 1 & -3 \end{bmatrix}$ 8. $\begin{bmatrix} -7 & -3 \\ 38 & 14 \end{bmatrix}$

9. $\begin{bmatrix} -4 & -6 & 5 \\ 7 & -5 & -1 \\ 0 & -16 & 4 \end{bmatrix}$ 10. $\begin{bmatrix} -7 & -3 & 11 \\ -2 & 6 & 18 \end{bmatrix}$

11. [6] 12. $\begin{bmatrix} 0 & -1 & -6 & 8 \\ 6 & -3 & 12 & 6 \\ 8 & -2 & 28 & -8 \end{bmatrix}$ 13. $\begin{bmatrix} 10 \\ 4 \\ 11 \\ 14 \end{bmatrix}$

14. $\begin{bmatrix} -22 & -18 \\ 33 & 27 \end{bmatrix}$ 15. $\begin{bmatrix} 11 & -2 \\ -4 & -14 \end{bmatrix}$

16. $\begin{bmatrix} 20 & -6 \\ 45 & 42 \\ -10 & 15 \end{bmatrix}$ 17. $\begin{bmatrix} 20 & 20 \\ 16 & 16 \\ 4 & 4 \end{bmatrix}$

18.

Opening night	\$2220
Second night	\$2525
Final night	\$2972.50