

# Answer Key

---

## Practice A

1.  $4 \times 3$    2.  $3 \times 2$    3.  $2 \times 1$    4.  $3 \times 4$

5. not equal   6. not equal   7. equal

8.  $\begin{bmatrix} 3 & 3 \\ 6 & 5 \end{bmatrix}$    9.  $\begin{bmatrix} -1 \\ 6 \end{bmatrix}$    10.  $[6 \quad -4]$

11. The operation is not possible because the matrices do not have the same dimensions.

12.  $\begin{bmatrix} -2 & 3 \\ 1 & 3 \end{bmatrix}$    13.  $\begin{bmatrix} -1 \\ -11 \end{bmatrix}$    14.  $\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$

15. The operation is not possible because the matrices do not have the same dimensions.

16.  $\begin{bmatrix} -13 & 2 \\ 1 & -3 \end{bmatrix}$    17.  $\begin{bmatrix} 2 & 12 \\ -6 & 4 \end{bmatrix}$

18.  $\begin{bmatrix} -3 & 0 \\ 9 & -18 \end{bmatrix}$    19.  $\begin{bmatrix} 10 \\ -25 \end{bmatrix}$

20.  $[12 \quad -24 \quad -4]$    21.  $\begin{bmatrix} 24 \\ 0 \\ -40 \end{bmatrix}$

22.  $\begin{bmatrix} -2 & -5 & 3 \\ -6 & 1 & 7 \\ 0 & 0 & -9 \end{bmatrix}$    23.  $x = 2; y = -4$

24.  $x = 5; y = 1$    25.  $x = 7; y = -3$

26.  $\begin{bmatrix} 435 & 562 \\ 525 & 3 \end{bmatrix}$