

# Answer Key

---

## Practice A

1. yes 2. no 3. yes 4. yes 5. no

6.  $\begin{bmatrix} 9 & -5 \\ -7 & 4 \end{bmatrix}$  7.  $\begin{bmatrix} 3 & -4 \\ 2 & -3 \end{bmatrix}$  8.  $\begin{bmatrix} 1 & 0 \\ 0 & \frac{1}{2} \end{bmatrix}$

9.  $\begin{bmatrix} -1 & -1 \\ -\frac{5}{3} & -2 \end{bmatrix}$

10. The matrix does not have an inverse.

11.  $\begin{bmatrix} 2 & 3 \\ -3 & -4 \end{bmatrix}$  12.  $\begin{bmatrix} -\frac{1}{5} & \frac{2}{5} \\ \frac{4}{5} & -\frac{3}{5} \end{bmatrix}$

13.  $\begin{bmatrix} 3 & -4 \\ -5 & 7 \end{bmatrix}$

14. The matrix does not have an inverse.

15.  $\begin{bmatrix} -2 & 7 \\ 3 & -4 \end{bmatrix}$  16.  $\begin{bmatrix} 3 & 8 \\ 4 & 10 \end{bmatrix}$

17.  $\begin{bmatrix} -15 & -17 \\ 26 & 29 \end{bmatrix}$  18.  $\begin{bmatrix} -15 & -7 & -40 \\ 13 & 6 & 34 \end{bmatrix}$

19.  $\begin{bmatrix} \frac{19}{10} & -\frac{3}{10} \\ -\frac{7}{10} & \frac{9}{10} \end{bmatrix}$  20.  $\begin{bmatrix} 7 & -9 & 0 \\ 5 & -6 & -1 \end{bmatrix}$

21.  $[13 \ 5], [5 \ 20], [0 \ 13], [5 \ 0], [1 \ 20],$

$[0 \ 19], [21 \ 14], [19 \ 5], [20 \ 0]$

22.  $[75 \ -44], [65 \ -35], [26 \ -13],$

$[25 \ -15], [45 \ -23], [38 \ -19], [133 \ -77],$   
 $[105 \ -62], [100 \ -60]$

23. 75, -44, 65, -35, 26, -13, 25, -15, 45,  
-23, 38, -19, 133, -77, 105, -62, 100, -60

24.  $\begin{bmatrix} -1 & 3 \\ -2 & 5 \end{bmatrix}$  25. NOT TONIGHT