

Math Worksheets

Finding Inverse of a Matrix

 Find the inverse of each matrix.

1) $\begin{vmatrix} 2 & 7 \\ 2 & 9 \end{vmatrix}$

8) $\begin{vmatrix} -5 & -3 \\ 2 & 3 \end{vmatrix}$

2) $\begin{vmatrix} 6 & 17 \\ 1 & 3 \end{vmatrix}$

9) $\begin{vmatrix} -3 & 6 \\ -4 & 8 \end{vmatrix}$

3) $\begin{vmatrix} 3 & 3 \\ 3 & 4 \end{vmatrix}$

10) $\begin{vmatrix} -2 & 3 \\ 3 & 5 \end{vmatrix}$

4) $\begin{vmatrix} 7 & 1 \\ 3 & 2 \end{vmatrix}$

11) $\begin{vmatrix} 7 & 5 \\ 9 & 8 \end{vmatrix}$

5) $\begin{vmatrix} -2 & 5 \\ 4 & 1 \end{vmatrix}$

12) $\begin{vmatrix} 0 & 7 \\ 5 & 4 \end{vmatrix}$

6) $\begin{vmatrix} 6 & 3 \\ 5 & 5 \end{vmatrix}$

13) $\begin{vmatrix} 0 & 0 \\ 7 & 8 \end{vmatrix}$

7) $\begin{vmatrix} 2 & 8 \\ 0 & 3 \end{vmatrix}$

14) $\begin{vmatrix} 12 & 8 \\ 6 & 4 \end{vmatrix}$

Answers of Worksheets

Finding Inverse of a Matrix

$$1) \begin{vmatrix} \frac{9}{4} & -7 \\ -1 & \frac{1}{2} \end{vmatrix}$$

$$2) \begin{vmatrix} 3 & -17 \\ -1 & 6 \end{vmatrix}$$

$$3) \begin{vmatrix} \frac{4}{3} & -1 \\ -1 & 1 \end{vmatrix}$$

$$4) \begin{vmatrix} \frac{2}{11} & -\frac{1}{11} \\ \frac{11}{-3} & \frac{7}{11} \end{vmatrix}$$

$$5) \begin{vmatrix} -\frac{1}{22} & \frac{5}{22} \\ \frac{2}{11} & \frac{1}{11} \end{vmatrix}$$

$$6) \begin{vmatrix} \frac{1}{3} & -\frac{1}{5} \\ -\frac{1}{3} & \frac{2}{5} \end{vmatrix}$$

$$7) \begin{vmatrix} \frac{1}{2} & -\frac{4}{3} \\ 0 & \frac{1}{3} \end{vmatrix}$$

$$8) \begin{vmatrix} -\frac{1}{3} & -\frac{1}{3} \\ \frac{2}{9} & \frac{5}{9} \end{vmatrix}$$

9) No inverse exists

$$10) \begin{vmatrix} -\frac{5}{19} & \frac{3}{19} \\ \frac{3}{19} & \frac{2}{19} \end{vmatrix}$$

$$11) \begin{vmatrix} \frac{8}{11} & -\frac{5}{11} \\ -\frac{9}{11} & \frac{7}{11} \end{vmatrix}$$

$$12) \begin{vmatrix} -\frac{4}{35} & \frac{1}{5} \\ \frac{1}{7} & 0 \end{vmatrix}$$

13) No inverse exists.

14) No inverse exists.