Name:

Date:

Finding Inverse of a Matrix

Find the inverse of each matrix.

1) $\begin{bmatrix} 0 & 2 \\ -2 & 5 \end{bmatrix} =$

2) $\begin{bmatrix} 9 & 7 \\ -7 & 10 \end{bmatrix} =$

3) $\begin{bmatrix} -11 & 3 \\ 5 & 4 \end{bmatrix} =$

4) $\begin{bmatrix} 8 & -6 \\ -10 & 9 \end{bmatrix} =$

5) $\begin{bmatrix} -3 & -2 \\ 1 & 6 \end{bmatrix} =$

6) $\begin{bmatrix} -9 & 6 \\ -3 & 0 \end{bmatrix} =$

7) $\begin{bmatrix} 3 & -4 \\ 0 & 5 \end{bmatrix} =$

8) $\begin{bmatrix} -1 & 6 \\ 3 & 7 \end{bmatrix} =$

QUIZ ?

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Finding Inverse of a Matrix

Answers

Find the inverse of each matrix.

1) $\begin{bmatrix} 0 & 2 \\ -2 & 5 \end{bmatrix} = \begin{bmatrix} \frac{5}{4} & -\frac{1}{2} \\ \frac{1}{2} & 0 \end{bmatrix}$

2) $\begin{bmatrix} 9 & 7 \\ -7 & 10 \end{bmatrix} = \begin{bmatrix} \frac{10}{139} & -\frac{7}{139} \\ \frac{7}{139} & \frac{9}{139} \end{bmatrix}$

3) $\begin{bmatrix} -11 & 3 \\ 5 & 4 \end{bmatrix} = \begin{bmatrix} -\frac{4}{59} & \frac{3}{59} \\ \frac{5}{59} & \frac{11}{59} \end{bmatrix}$

4) $\begin{bmatrix} 8 & -6 \\ -10 & 9 \end{bmatrix} = \begin{bmatrix} \frac{3}{4} & \frac{1}{2} \\ \frac{5}{6} & \frac{2}{3} \end{bmatrix}$

5) $\begin{bmatrix} -3 & -2 \\ 1 & 6 \end{bmatrix} = \begin{bmatrix} -\frac{3}{8} & -\frac{1}{8} \\ \frac{1}{16} & \frac{3}{16} \end{bmatrix}$

6) $\begin{bmatrix} -9 & 6 \\ -3 & 0 \end{bmatrix} = \begin{bmatrix} 0 & -\frac{1}{3} \\ \frac{1}{6} & -\frac{1}{2} \end{bmatrix}$

7) $\begin{bmatrix} 3 & -4 \\ 0 & 5 \end{bmatrix} = \begin{bmatrix} \frac{1}{3} & \frac{4}{15} \\ 0 & \frac{1}{5} \end{bmatrix}$

8) $\begin{bmatrix} -1 & 6 \\ 3 & 7 \end{bmatrix} = \begin{bmatrix} -\frac{7}{25} & \frac{6}{25} \\ \frac{3}{25} & \frac{1}{25} \end{bmatrix}$

QUIZ ?

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