Matrices - Create Augmented Matrix (3x3)

1 Created an augmented matrix from this matrix to start the process of inverting it

$$\begin{bmatrix} 7 & 6 & 8 \\ 0 & 4 & 2 \\ 1 & 9 & 8 \end{bmatrix}$$

A. $undefined$

B. $\left[\begin{array}{ccc|ccc} 0 & 0 & 0 & 7 & 6 & 8 \\ 0 & 0 & 0 & 0 & 4 & 2 \\ 0 & 0 & 0 & 1 & 9 & 8 \end{array}\right]$

C. $\left[\begin{array}{ccc|ccc} 7 & 6 & 8 & 0 & 0 & 1 \\ 0 & 4 & 2 & 0 & 1 & 0 \\ 1 & 9 & 8 & 1 & 0 & 0 \end{array}\right]$

D. $\left[\begin{array}{ccc|ccc} 7 & 6 & 8 & 0 & 0 & 0 \\ 0 & 4 & 2 & 0 & 0 & 0 \\ 1 & 9 & 8 & 0 & 0 & 0 \end{array}\right]$

E. $\left[\begin{array}{ccc|ccc} 7 & 6 & 8 & 1 & 1 & 1 \\ 0 & 4 & 2 & 1 & 1 & 1 \\ 1 & 9 & 8 & 1 & 1 & 1 \end{array}\right]$

F. $\left[\begin{array}{ccc|ccc} 7 & 6 & 8 & 1 & 0 & 0 \\ 0 & 4 & 2 & 0 & 1 & 0 \\ 1 & 9 & 8 & 0 & 0 & 1 \end{array}\right]$

2 Created an augmented matrix from this matrix to start the process of inverting it

$$\begin{bmatrix} 0 & 6 & 8 \\ 0 & 4 & 2 \\ 4 & 6 & 6 \end{bmatrix}$$

A. $\left[\begin{array}{ccc|ccc} 0 & 0 & 0 & 0 & 6 & 8 \\ 0 & 0 & 0 & 0 & 4 & 2 \\ 0 & 0 & 0 & 4 & 6 & 6 \end{array}\right]$

B. $\left[\begin{array}{ccc|ccc} 0 & 6 & 8 & 0 & 0 & 1 \\ 0 & 4 & 2 & 0 & 1 & 0 \\ 4 & 6 & 6 & 1 & 0 & 0 \end{array}\right]$

C. $\left[\begin{array}{ccc|ccc} 0 & 6 & 8 & 1 & 0 & 0 \\ 0 & 4 & 2 & 0 & 1 & 0 \\ 4 & 6 & 6 & 0 & 0 & 1 \end{array}\right]$

D. $\left[\begin{array}{ccc|ccc} 0 & 6 & 8 & 0 & 0 & 0 \\ 0 & 4 & 2 & 0 & 0 & 0 \\ 4 & 6 & 6 & 0 & 0 & 0 \end{array}\right]$

E. $\left[\begin{array}{ccc|ccc} 1 & 1 & 1 & 0 & 6 & 8 \\ 1 & 1 & 1 & 0 & 4 & 2 \\ 1 & 1 & 1 & 4 & 6 & 6 \end{array}\right]$

F. $undefined$

3 Created an augmented matrix from this matrix to start the process of inverting it

$$\begin{bmatrix} 3 & 8 & 4 \\ 6 & 4 & 9 \\ 2 & 8 & 9 \end{bmatrix}$$

A. $\left[\begin{array}{ccc|ccc} 3 & 8 & 4 & 1 & 1 & 1 \\ 6 & 4 & 9 & 1 & 1 & 1 \\ 2 & 8 & 9 & 1 & 1 & 1 \end{array}\right]$

B. $\left[\begin{array}{ccc|ccc} 3 & 8 & 4 & 0 & 0 & 0 \\ 6 & 4 & 9 & 0 & 0 & 0 \\ 2 & 8 & 9 & 0 & 0 & 0 \end{array}\right]$

C. $\left[\begin{array}{ccc|ccc} 1 & 0 & 0 & 3 & 8 & 4 \\ 0 & 1 & 0 & 6 & 4 & 9 \\ 0 & 0 & 1 & 2 & 8 & 9 \end{array}\right]$

D. $\left[\begin{array}{ccc|ccc} 1 & 1 & 1 & 3 & 8 & 4 \\ 1 & 1 & 1 & 6 & 4 & 9 \\ 1 & 1 & 1 & 2 & 8 & 9 \end{array}\right]$

E. $\left[\begin{array}{ccc|ccc} 3 & 8 & 4 & 1 & 0 & 0 \\ 6 & 4 & 9 & 0 & 1 & 0 \\ 2 & 8 & 9 & 0 & 0 & 1 \end{array}\right]$

F. $\left[\begin{array}{ccc|ccc} 0 & 0 & 0 & 3 & 8 & 4 \\ 0 & 0 & 0 & 6 & 4 & 9 \\ 0 & 0 & 0 & 2 & 8 & 9 \end{array}\right]$

4 Created an augmented matrix from this matrix to start the process of inverting it

$$\begin{bmatrix} 7 & 0 & 5 \\ 7 & 2 & 0 \\ 2 & 2 & 6 \end{bmatrix}$$

A. $\left[\begin{array}{ccc|ccc} 1 & 1 & 1 & 7 & 0 & 5 \\ 1 & 1 & 1 & 7 & 2 & 0 \\ 1 & 1 & 1 & 2 & 2 & 6 \end{array}\right]$

B. $undefined$

C. $\left[\begin{array}{ccc|ccc} 7 & 0 & 5 & 1 & 1 & 1 \\ 7 & 2 & 0 & 1 & 1 & 1 \\ 2 & 2 & 6 & 1 & 1 & 1 \end{array}\right]$

D. $\left[\begin{array}{ccc|ccc} 7 & 0 & 5 & 1 & 0 & 0 \\ 7 & 2 & 0 & 0 & 1 & 0 \\ 2 & 2 & 6 & 0 & 0 & 1 \end{array}\right]$

E. $\left[\begin{array}{ccc|ccc} 7 & 0 & 5 & 0 & 0 & 0 \\ 7 & 2 & 0 & 0 & 0 & 0 \\ 2 & 2 & 6 & 0 & 0 & 0 \end{array}\right]$

F. $\left[\begin{array}{ccc|ccc} 0 & 0 & 0 & 7 & 0 & 5 \\ 0 & 0 & 0 & 7 & 2 & 0 \\ 0 & 0 & 0 & 2 & 2 & 6 \end{array}\right]$

5 Created an augmented matrix from this matrix to start the process of inverting it

$$\begin{bmatrix} 6 & 6 & 3 \\ 7 & 9 & 1 \\ 9 & 4 & 6 \end{bmatrix}$$

A. $\left[\begin{array}{ccc|ccc} 6 & 6 & 3 & 1 & 0 & 0 \\ 7 & 9 & 1 & 0 & 1 & 0 \\ 9 & 4 & 6 & 0 & 0 & 1 \end{array}\right]$

B. $\left[\begin{array}{ccc|ccc} 0 & 0 & 1 & 6 & 6 & 3 \\ 0 & 1 & 0 & 7 & 9 & 1 \\ 1 & 0 & 0 & 9 & 4 & 6 \end{array}\right]$

C. $undefined$

D. $\left[\begin{array}{ccc|ccc} 6 & 6 & 3 & 0 & 0 & 1 \\ 7 & 9 & 1 & 0 & 1 & 0 \\ 9 & 4 & 6 & 1 & 0 & 0 \end{array}\right]$

E. $\left[\begin{array}{ccc|ccc} 6 & 6 & 3 & 1 & 1 & 1 \\ 7 & 9 & 1 & 1 & 1 & 1 \\ 9 & 4 & 6 & 1 & 1 & 1 \end{array}\right]$

F. $\left[\begin{array}{ccc|ccc} 1 & 1 & 1 & 6 & 6 & 3 \\ 1 & 1 & 1 & 7 & 9 & 1 \\ 1 & 1 & 1 & 9 & 4 & 6 \end{array}\right]$

6 Created an augmented matrix from this matrix to start the process of inverting it

$$\begin{bmatrix} 3 & 7 & 1 \\ 4 & 5 & 2 \\ 0 & 5 & 3 \end{bmatrix}$$

A. $\left[\begin{array}{ccc|ccc} 3 & 7 & 1 & 1 & 1 & 1 \\ 4 & 5 & 2 & 1 & 1 & 1 \\ 0 & 5 & 3 & 1 & 1 & 1 \end{array}\right]$

B. $\left[\begin{array}{ccc|ccc} 3 & 7 & 1 & 0 & 0 & 0 \\ 4 & 5 & 2 & 0 & 0 & 0 \\ 0 & 5 & 3 & 0 & 0 & 0 \end{array}\right]$

C. $\left[\begin{array}{ccc|ccc} 3 & 7 & 1 & 1 & 0 & 0 \\ 4 & 5 & 2 & 0 & 1 & 0 \\ 0 & 5 & 3 & 0 & 0 & 1 \end{array}\right]$

D. $\left[\begin{array}{ccc|ccc} 3 & 7 & 1 & 0 & 0 & 1 \\ 4 & 5 & 2 & 0 & 1 & 0 \\ 0 & 5 & 3 & 1 & 0 & 0 \end{array}\right]$

E. $\left[\begin{array}{ccc|ccc} 1 & 0 & 0 & 3 & 7 & 1 \\ 0 & 1 & 0 & 4 & 5 & 2 \\ 0 & 0 & 1 & 0 & 5 & 3 \end{array}\right]$

F. $\left[\begin{array}{ccc|ccc} 1 & 1 & 1 & 3 & 7 & 1 \\ 1 & 1 & 1 & 4 & 5 & 2 \\ 1 & 1 & 1 & 0 & 5 & 3 \end{array}\right]$

7 Created an augmented matrix from this matrix to start the process of inverting it

$$\begin{bmatrix} 3 & 2 & 3 \\ 9 & 1 & 3 \\ 8 & 4 & 8 \end{bmatrix}$$

A. $\left[\begin{array}{ccc|ccc} 0 & 0 & 1 & 3 & 2 & 3 \\ 0 & 1 & 0 & 9 & 1 & 3 \\ 1 & 0 & 0 & 8 & 4 & 8 \end{array}\right]$

B. $\left[\begin{array}{ccc|ccc} 3 & 2 & 3 & 0 & 0 & 1 \\ 9 & 1 & 3 & 0 & 1 & 0 \\ 8 & 4 & 8 & 1 & 0 & 0 \end{array}\right]$

C. $\left[\begin{array}{ccc|ccc} 3 & 2 & 3 & 1 & 0 & 0 \\ 9 & 1 & 3 & 0 & 1 & 0 \\ 8 & 4 & 8 & 0 & 0 & 1 \end{array}\right]$

D. $\left[\begin{array}{ccc|ccc} 1 & 1 & 1 & 3 & 2 & 3 \\ 1 & 1 & 1 & 9 & 1 & 3 \\ 1 & 1 & 1 & 8 & 4 & 8 \end{array}\right]$

E. $\left[\begin{array}{ccc|ccc} 0 & 0 & 0 & 3 & 2 & 3 \\ 0 & 0 & 0 & 9 & 1 & 3 \\ 0 & 0 & 0 & 8 & 4 & 8 \end{array}\right]$

F. $\left[\begin{array}{ccc|ccc} 1 & 0 & 0 & 3 & 2 & 3 \\ 0 & 1 & 0 & 9 & 1 & 3 \\ 0 & 0 & 1 & 8 & 4 & 8 \end{array}\right]$

8 Created an augmented matrix from this matrix to start the process of inverting it

$$\begin{bmatrix} 6 & 2 & 8 \\ 2 & 2 & 5 \\ 1 & 2 & 6 \end{bmatrix}$$

A. $\left[\begin{array}{ccc|ccc} 6 & 2 & 8 & 0 & 0 & 0 \\ 2 & 2 & 5 & 0 & 0 & 0 \\ 1 & 2 & 6 & 0 & 0 & 0 \end{array}\right]$

B. $\left[\begin{array}{ccc|ccc} 0 & 0 & 1 & 6 & 2 & 8 \\ 0 & 1 & 0 & 2 & 2 & 5 \\ 1 & 0 & 0 & 1 & 2 & 6 \end{array}\right]$

C. $\left[\begin{array}{ccc|ccc} 6 & 2 & 8 & 1 & 1 & 1 \\ 2 & 2 & 5 & 1 & 1 & 1 \\ 1 & 2 & 6 & 1 & 1 & 1 \end{array}\right]$

D. $\left[\begin{array}{ccc|ccc} 6 & 2 & 8 & 1 & 0 & 0 \\ 2 & 2 & 5 & 0 & 1 & 0 \\ 1 & 2 & 6 & 0 & 0 & 1 \end{array}\right]$

E. $\left[\begin{array}{ccc|ccc} 0 & 0 & 0 & 6 & 2 & 8 \\ 0 & 0 & 0 & 2 & 2 & 5 \\ 0 & 0 & 0 & 1 & 2 & 6 \end{array}\right]$

F. $\left[\begin{array}{ccc|ccc} 1 & 1 & 1 & 6 & 2 & 8 \\ 1 & 1 & 1 & 2 & 2 & 5 \\ 1 & 1 & 1 & 1 & 2 & 6 \end{array}\right]$