Matrices

Date:

Δ = ____

Find whether inverse does exist for the given matrices:

1)

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

2)

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

Conclusion:

Conclusion:

3)

$$\begin{bmatrix} 8 & 16 \\ 2 & 4 \end{bmatrix}$$

4)

$$\begin{bmatrix} 6 & 3 \\ 10 & 5 \end{bmatrix}$$

Conclusion:

Conclusion:

5)

6)

$$\begin{bmatrix} 9 & -18 \\ 4 & -8 \end{bmatrix}$$

Δ =____

Δ =_____

Conclusion:

Conclusion:

7)

$$\begin{bmatrix} 15 & 5 \\ 12 & 4 \end{bmatrix}$$

8)

$$\begin{bmatrix} 9 & 5 \\ 4 & 3 \end{bmatrix}$$

Δ =_____

Conclusion:

Conclusion:

Matrices

Name:

Date:_____

Find whether inverse does exist for the given matrices:

1)

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

2)

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

Conclusion: Inverse Exist

Δ = -16≠0

Conclusion: Inverse Exist

3)

$$\begin{bmatrix} 8 & 16 \\ 2 & 4 \end{bmatrix}$$

4)

$$\begin{bmatrix} 6 & 3 \\ 10 & 5 \end{bmatrix}$$

 $\Delta = 0$

Conclusion: Inverse Does Not Exist

 $\Delta = 0$

Conclusion: Inverse Does Not Exist

5)

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

6)

$$\begin{bmatrix} 9 & -18 \\ 4 & -8 \end{bmatrix}$$

Δ = 6≠0

Conclusion: Inverse Exist

 $\Delta = 0$

Conclusion: Inverse Does Not Exist

7)

$$\begin{bmatrix} 15 & 5 \\ 12 & 4 \end{bmatrix}$$

8)

$$\begin{bmatrix} 9 & 5 \\ 4 & 3 \end{bmatrix}$$

$$\Delta = 0$$

Conclusion: Inverse Does Not Exist

Conclusion: Inverse Exist