Student Name: _____

Score:

Inverse matrix

ES2

Check whether inverse exists for the following matrices:

$$\begin{bmatrix} 5 & 2 & 8 \\ -1 & 2 & 4 \\ -2 & 1 & 1 \end{bmatrix}$$

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

$$\Delta =$$

Conclusion:



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$$\Delta =$$

Conclusion:

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$$\Delta = \bigcap$$

Conclusion: Conclusion:

$$\Delta = \bigcap$$

Student Name: _____

Score:

Answer Key

Inverse matrix

ES2

$$\begin{bmatrix} 5 & 2 & 8 \\ -1 & 2 & 4 \\ -2 & 1 & 1 \end{bmatrix}$$

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

 $\Lambda = 0$

 $\Delta = 0$

Conclusion: Invers

 $\begin{bmatrix} 5 & 9 & 7 \\ -2 & 3 & 2 \\ 1 & 0 & 3 \end{bmatrix}$

 $\Delta = 96 \neq 0$

Conclusion: Invers

 $\begin{bmatrix} 5 & -4 & 1 \\ 2 & -6 & -1 \\ 7 & 1 & 2 \end{bmatrix}$

 $\Delta = 33 \neq 0$ Conclusion: Inverse exists

PREVIEW

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does not exist

does not exist

Conclusion: Inverse exists