Student Name: _____

Score:

Inverse matrix

ES1

Check whether inverse exists for the following matrices:

$$\begin{bmatrix} -1 & 4 & 5 \\ 3 & 6 & -2 \\ 4 & 3 & 1 \end{bmatrix}$$

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

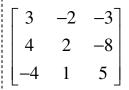
 $\Delta =$

Conclusion:

PREVIEW

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$$\Delta =$$

Conclusion:

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$$\Delta =$$

-7 10 5

$$\Delta = \bigcap$$

Conclusion: _____ Conclusion: _

Student Name: _____

Score:

Answer Key

Inverse matrix

ES1

$$\begin{bmatrix} -1 & 4 & 5 \\ 3 & 6 & -2 \\ 4 & 3 & 1 \end{bmatrix}$$

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

$$\Delta = -131 \neq 0$$

$$\Delta = 45 \neq 0$$

Conclusion: Invers

 $\begin{bmatrix} 3 & -2 & -3 \\ 4 & 2 & -8 \\ -4 & 1 & 5 \end{bmatrix}$

PREVIEW

exists

does not exist

 $\Delta = -6 \neq 0$

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Conclusion: Invers

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 $\begin{vmatrix} 2 & 1 & -1 \\ -1 & 1 & 2 \end{vmatrix}$

 $\Delta = 0$

Conclusion: Inverse does not exist

Conclusion: Inverse exists