

Student Name: _____

Score: _____

Inverse matrix

ES2

Check whether inverse exists for the following matrices:

$$\begin{bmatrix} 3 & -6 \\ 7 & -2 \end{bmatrix}$$

$$\Delta = \boxed{}$$

Conclusion: _____

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

$$\Delta = \boxed{}$$

Conclusion: _____

$$\begin{bmatrix} 12 & 4 \\ 9 & 3 \end{bmatrix}$$

$$\Delta = \boxed{}$$

Conclusion: _____

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

$$\Delta = \boxed{}$$

Conclusion: _____

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

$$\Delta = \boxed{}$$

Conclusion: _____

$$\begin{bmatrix} 0 & 0 \\ -2 & 8 \end{bmatrix}$$

$$\Delta = \boxed{}$$

Conclusion: _____

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Answer Key

Inverse matrix

ES2

$$\begin{bmatrix} 3 & -6 \\ 7 & -2 \end{bmatrix}$$

$$\Delta = 36 \neq 0$$

Conclusion: Inverse exists

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

$$\Delta = -14 \neq 0$$

Conclusion: Inverse exists

$$\begin{bmatrix} 12 & 4 \\ 9 & 3 \end{bmatrix}$$

$$\Delta = 0$$

Conclusion: Inverse does not exist

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

$$\Delta = -40 \neq 0$$

Conclusion: Inverse exists

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

$$\Delta = 6 \neq 0$$

Conclusion: Inverse exists

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

$$\Delta = 0$$

Conclusion: Inverse does not exist

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