

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: _____

PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

www.mathworksheets4kids.com

Student Name: _____

Score: _____

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

Gain complete access to the largest collection of worksheets in all subjects!

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

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

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

PREVIEW

Members, please
log in to
download this
worksheet.

Not a member?
Please sign up to
gain complete
access.

www.mathworksheets4kids.com