Congratulations! You passed!

Grade received 100% To pass 80% or higher

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This is an ungraded quiz. This means that, even though you will get a grade for the quiz, the quiz score will not count in your final grade.

1. Calculate the determinant of the following matrix. Is the matrix singular or non-singular?

1/1 point

$$A = \begin{bmatrix} 2 & 3 \\ 2 & 4 \end{bmatrix}$$

Hint: To find the determinant apply the formula ad-bc. A matrix of determinant 0 is singular, while a determinant different than $\boldsymbol{0}$ represents a complete system, thus a non-singular matrix.

- $igotimes \det(A) = 2$. The matrix is non-singular.
- $\bigcirc \det(A) = 0$. The matrix is singular.
- $\bigcirc \det(A) = 2$. The matrix is singular.
- $\bigcirc \det(A) = -2$. The matrix is singular.

⊘ Correct

You have correctly calculated the determinant and identified the singularity of the matrix.

2. Determine if this matrix has linearly dependent or independent rows.

1/1 point

- Linearly independent
- O Linearly dependent
- O It cannot be determined



⊘ Correct

The matrix has linearly independent rows. You cannot obtain one row by using row operations on the other row.