

MODULE 5

LESSON 5

QUIZ

1. Question. From the systems below, which is equivalent to the system

$$\begin{aligned} 3x + y + 2z &= 13 \\ 2x + 3y + 4z &= 19 \\ x + 4y + 3z &= 15 \end{aligned} ?$$

A.

$$\begin{aligned} 3x + y + 2z &= 15 \\ 2x + 3y + 4z &= 19 \\ x + 4y + 3z &= 15 \end{aligned}$$

B.

$$\begin{aligned} 6x + y + 4z &= 26 \\ 2x + 3y + 4z &= 19 \\ x + 4y + 3z &= 15 \end{aligned}$$

C.

$$\begin{aligned} 3x + y + 2z &= 13 \\ 2x + 3y + 4z &= 19 \\ 2x + 8y + 6z &= 30 \end{aligned}$$

D.

$$\begin{aligned} 3x + y + 2z &= 13 \\ 2x + 3y + 4z &= 19 \\ 2x + 4y + 3z &= 15 \end{aligned}$$

Go to answer 1

2. Question. Which of the following systems is obtained from the system

$$\begin{aligned}x + 2y + z &= 3 \\3x - y - 3z &= -1 \\x + y + 2z &= 4\end{aligned}$$

by performing the elimination (to the back-substitution form)?

A.

$$\begin{aligned}x + 2y + z &= 3 \\- 7y - 6z &= -10 \\- z &= -4\end{aligned}$$

B.

$$\begin{aligned}x + 2y + z &= 3 \\- 7y - 6z &= -10 \\- 13z &= -17\end{aligned}$$

C.

$$\begin{aligned}x + 2y + z &= 3 \\11y + 7z &= 32 \\3z &= 9\end{aligned}$$

D.

$$\begin{aligned}x + 2y + z &= 3 \\- 11y - 7z &= -32 \\z &= 3\end{aligned}$$

Go to answer 2

3. Question. Which of the following matrices is obtained from the matrix

$$\left(\begin{array}{cc|c} 2 & 8 & 16 \\ 3 & 6 & 18 \end{array} \right)$$

by performing the Gaussian elimination?

A.

$$\left(\begin{array}{cc|c} 1 & 2 & 4 \\ 0 & 1 & 2 \end{array} \right)$$

B.

$$\left(\begin{array}{cc|c} 1 & 2 & 6 \\ 0 & 1 & 1 \end{array} \right)$$

C.

$$\left(\begin{array}{cc|c} 1 & 4 & 8 \\ 0 & 1 & 1 \end{array} \right)$$

D.

$$\left(\begin{array}{cc|c} 1 & 1 & 6 \\ 0 & 1 & 1 \end{array} \right)$$

Go to answer 3

ANSWERS

1. Answer to Question 1 is "C".

Go back 1

2. Answer to Question 2 is "B".

Go back 2

3. Answer to Question 3 is "C".

Go back 3