

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

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

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

A.

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

B.

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

C.

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

D.

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

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