

MODULE 5

LESSON 3

QUIZ

1. Question. Which of the following matrices is equal to the matrix

$$\begin{pmatrix} 2 & 1 \\ 0 & 7 \end{pmatrix}$$

A.

$$\begin{pmatrix} 1 & 2 \\ 0 & 7 \end{pmatrix}$$

B.

$$\begin{pmatrix} 2 & 3 \\ 1 & 7 \end{pmatrix}$$

C.

$$\begin{pmatrix} 2 & 1 \\ 0 & 7 \end{pmatrix}$$

D.

$$\begin{pmatrix} 5 & 2 \\ 3 & 10 \end{pmatrix}$$

Go to answer 1

2. Question. Which of the following is the augmented matrix for the system

$$\begin{array}{rcl} 3x - y + 13z & = & 21 \\ 2x + 4y & & = 2 ? \\ 3x + 3y + 3z & = & 15 \end{array}$$

A.

$$\left(\begin{array}{ccc|c} 3 & -1 & 13 & 21 \\ 2 & 4 & 0 & 2 \\ 3 & 3 & 3 & 15 \end{array} \right)$$

B.

$$\left(\begin{array}{ccc|c} 1 & -4 & 3 & 5 \\ 3 & 2 & 0 & 2 \\ 3 & 2 & 1 & 10 \end{array} \right)$$

C.

$$\left(\begin{array}{ccc|c} 1 & -4 & 3 & 5 \\ 3 & 2 & 2 & \\ 3 & 2 & 1 & 10 \end{array} \right)$$

D.

$$\left(\begin{array}{ccc|c} 1 & -4 & 3 & 5 \\ & 3 & 2 & 2 \\ 3 & 2 & 1 & 10 \end{array} \right)$$

Go to answer 2

3. Question. To which of the following linear systems is the augmented matrix

$$\left(\begin{array}{ccc|c} 2 & -3 & 0 & 6 \\ 1 & 2 & 4 & 3 \\ 7 & 8 & 2 & 5 \end{array} \right)$$

associated?

A.

$$\begin{aligned} 2x - 3y + z &= 6 \\ x + 2y + 4z &= 3 \\ 7x + 8y + z &= 5 \end{aligned}$$

B.

$$\begin{aligned} 2x - 3y + z &= 6 \\ x + 2y + 3z &= 3 \\ 7x + 8y + z &= 5 \end{aligned}$$

C.

$$\begin{aligned} 2x - 3y &= 6 \\ x + 2y + 4z &= 3 \\ 7x + 8y + z &= 5 \end{aligned}$$

D.

$$\begin{aligned} 2x - 3y &= 6 \\ x + 2y + 4z &= 3 \\ 7x + 8y + 2z &= 5 \end{aligned}$$

Go to answer 3

4. Question. Which of the following is the dimension of the matrix

$$\begin{pmatrix} 4 & 0 & 3 & -2 & 5 \\ -3 & 2 & 2 & 2 & 2 \\ 0 & 3 & 7 & 11 & 1 \\ 1 & -5 & -2 & 1 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \end{pmatrix} ?$$

A. 5×5

B. 7×5

C. undefined

D. 5×7

Go to answer 4

5. Question. Which of the following is the entry in the fourth row and third column of the matrix

$$\begin{pmatrix} 4 & 0 & 3 & -2 & 5 \\ -3 & 2 & 2 & 2 & 2 \\ 0 & 3 & 7 & 11 & 1 \\ 1 & -5 & -2 & 1 & 1 \\ 1 & -1 & 1 & -1 & 1 \\ 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \end{pmatrix} ?$$

A. 11

B. 1

C. -1

D. -2

Go to answer 5

ANSWERS

1. Answer to Question 1 is "C".

Go back 1

2. Answer to Question 2 is "A".

Go back 2

3. Answer to Question 3 is "D".

Go back 3

4. Answer to Question 4 is "B".

Go back 4

5. Answer to Question 5 is "D".

Go back 5