

Linear Algebra (equations)

Problems and Answers.

Answers

Solve the system of linear equations #1

$$\begin{cases} 5x+5y-3z=4 \\ -2x-2y+2z=3 \\ -2x+6y-8z=0 \end{cases}$$

Solve the system of linear equations #2

$$\begin{cases} 7x+7y-7z=4 \\ 5x-7y+2z=-1 \\ 5x+3y-7z=-2 \end{cases}$$

Solve the system of linear equations #3

$$\begin{cases} 3x+8y-5z=3 \\ 5x-5y+4z=0 \\ 3x+2y-3z=0 \end{cases}$$

Solve the system of linear equations #4

$$\begin{cases} -4x+7y-3z=2 \\ 3x-6y+2z=-1 \\ 3x+2y-2z=2 \end{cases}$$

Solve the system of linear equations #5

$$\begin{cases} -2x+2y-5z=4 \\ -2x-5y+2z=-1 \\ 5x+2y-5z=4 \end{cases}$$

Solve the system of linear equations #6

$$\begin{cases} -4x+7y-4z=4 \\ 3x-3y+8z=0 \\ -4x+5y-6z=-1 \end{cases}$$

Solve the system of linear equations #7

$$\begin{cases} -2x+8y-4z=2 \\ 5x-2y+7z=-1 \\ 5x+5y-2z=4 \end{cases}$$

Solve the system of linear equations #8

$$\begin{cases} -8x+6y-7z=-2 \\ 5x-3y+7z=0 \\ -2x+6y-3z=2 \end{cases}$$

Solve the system of linear equations #9

$$\begin{cases} 5x+3y-4z=-1 \\ 3x-6y+6z=-1 \\ 5x+7y-5z=2 \end{cases}$$

Solve the system of linear equations #10

$$\begin{cases} -8x+3y-3z=0 \\ -2x-2y+7z=-1 \\ -4x+7y-6z=2 \end{cases}$$

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Solve the system of linear equations #1

$$\left\{ \begin{array}{l} 5x+5y-3z=4 \\ -2x-2y+2z=3 \\ -2x+6y-8z=0 \end{array} \right. \quad x=-41/16 ; y=109/16 ; z=23/4$$

Solve the system of linear equations #2

$$\left\{ \begin{array}{l} 7x+7y-7z=4 \\ 5x-7y+2z=-1 \\ 5x+3y-7z=-2 \end{array} \right. \quad x=107/133 ; y=146/133 ; z=177/133$$

Solve the system of linear equations #3

$$\left\{ \begin{array}{l} 3x+8y-5z=3 \\ 5x-5y+4z=0 \\ 3x+2y-3z=0 \end{array} \right. \quad x=3/16 ; y=81/112 ; z=75/112$$

Solve the system of linear equations #4

$$\left\{ \begin{array}{l} -4x+7y-3z=2 \\ 3x-6y+2z=-1 \\ 3x+2y-2z=2 \end{array} \right. \quad x=NAN/NAN ; y=-1/4 ; z=-5/4$$

Solve the system of linear equations #5

$$\left\{ \begin{array}{l} -2x+2y-5z=4 \\ -2x-5y+2z=-1 \\ 5x+2y-5z=4 \end{array} \right. \quad x=NAN/NAN ; y=-1/7 ; z=-6/7$$

Solve the system of linear equations #6

$$\left\{ \begin{array}{l} -4x+7y-4z=4 \\ 3x-3y+8z=0 \\ -4x+5y-6z=-1 \end{array} \right. \quad x=6 ; y=38/11 ; z=-21/22$$

Solve the system of linear equations #7

$$\left\{ \begin{array}{l} -2x+8y-4z=2 \\ 5x-2y+7z=-1 \\ 5x+5y-2z=4 \end{array} \right. \quad x=67/141 ; y=7/47 ; z=-62/141$$

Solve the system of linear equations #8

$$\left\{ \begin{array}{l} -8x+6y-7z=-2 \\ 5x-3y+7z=0 \\ -2x+6y-3z=2 \end{array} \right. \quad x=18/17 ; y=20/51 ; z=-10/17$$

Solve the system of linear equations #9

$$\left\{ \begin{array}{l} 5x+3y-4z=-1 \\ 3x-6y+6z=-1 \\ 5x+7y-5z=2 \end{array} \right. \quad x=-13/129 ; y=124/129 ; z=109/129$$

Solve the system of linear equations #10

$$\left\{ \begin{array}{l} -8x+3y-3z=0 \\ -2x-2y+7z=-1 \\ -4x+7y-6z=2 \end{array} \right. \quad x=3/22 ; y=4/11 ; z=NAN/NAN$$