

Linear Algebra (equations)

Problems and Answers.

Answers

Solve the system of linear equations #1

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

Solve the system of linear equations #2

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

Solve the system of linear equations #3

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

Solve the system of linear equations #4

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

Solve the system of linear equations #5

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

Solve the system of linear equations #6

$$\begin{cases} 3x+3y-2z=1 \\ 5x-7y+3z=-1 \\ 5x+2y-3z=0 \end{cases}$$

Solve the system of linear equations #7

$$\begin{cases} 3x+7y-7z=0 \\ 5x-5y+6z=3 \\ -2x+5y-3z=4 \end{cases}$$

Solve the system of linear equations #8

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

Solve the system of linear equations #9

$$\begin{cases} 5x+8y-8z=2 \\ -2x-6y+7z=-1 \\ 3x+4y-5z=4 \end{cases}$$

Solve the system of linear equations #10

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

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Solve the system of linear equations #1

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

$$x=-1/36 ; y=1/18 ; z=25/36$$

Solve the system of linear equations #2

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

$$x=-8/37 ; y=-35/37 ; z=-83/37$$

Solve the system of linear equations #3

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

$$x=8/259 ; y=248/259 ; z=179/259$$

Solve the system of linear equations #4

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

$$x=73/116 ; y=-85/116 ; z=-83/116$$

Solve the system of linear equations #5

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

$$x=-17/28 ; y=8/21 ; z=59/84$$

Solve the system of linear equations #6

$$\begin{cases} 3x+3y-2z=1 \\ 5x-7y+3z=-1 \\ 5x+2y-3z=0 \end{cases}$$

$$x=2/9 ; y=29/45 ; z=4/5$$

Solve the system of linear equations #7

$$\begin{cases} 3x+7y-7z=0 \\ 5x-5y+6z=3 \\ -2x+5y-3z=4 \end{cases}$$

$$x=14/129 ; y=281/129 ; z=287/129$$

Solve the system of linear equations #8

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

$$x=12/17 ; y=-39/34 ; z=-47/34$$

Solve the system of linear equations #9

$$\begin{cases} 5x+8y-8z=2 \\ -2x-6y+7z=-1 \\ 3x+4y-5z=4 \end{cases}$$

$$x=14/9 ; y=-53/18 ; z=-20/9$$

Solve the system of linear equations #10

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

$$x=10/31 ; y=7/62 ; z=-1/124$$