

Step-1

Given system of equations is

$$6u + 7v + 8w = 8$$

$$4u + 5v + 9w = 9$$

$$2u - 2v + 7w = 7$$

We have to find the solution for this system in the column form.

Step-2

The column picture for this system is as follows:

$$u \begin{bmatrix} 6 \\ 4 \\ 2 \end{bmatrix} + v \begin{bmatrix} 7 \\ 5 \\ 2 \end{bmatrix} + w \begin{bmatrix} 8 \\ 9 \\ 7 \end{bmatrix} = \begin{bmatrix} 8 \\ 9 \\ 7 \end{bmatrix} = b$$

We can observe that the coefficient of w and b are the same, so we have $0(\text{column1}) + 0(\text{column2}) + 1(\text{column3}) = b$

So the solution for the given system is $\boxed{(0,0,1)}$