Resolução:
$$\begin{cases}
x - 2y - 32 = 0 \\
4x - 3y = -38 \\
2y + 52 = -8
\end{cases}$$
Rega Cramer
$$x = \frac{Dx}{det(A)}; y = \frac{Dy}{det(A)}; z = \frac{Dz}{det(A)}$$
Recorde que det $(A) = 1$

$$Dx = \begin{vmatrix} 0 & -2 & -3 \\ -38 & -3 & 0 \end{vmatrix} = 0 \implies x = 0 = 0$$

$$\begin{vmatrix} 1 & 0 & -3 & -3 \\ -8 & 2 & 5 \end{vmatrix} = 0 \implies x = 0 = 0$$

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$$\begin{vmatrix} 1 & -2 & 0 \\ 4 & -3 & -38 \\ 0 & 2 & -8 \end{vmatrix} = -4 \implies 2 = -4 = 0$$

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-> Método da Matriz Inversa

$$cut(A) = 1 \neq 0 \implies X = A^{-1}B$$

$$\Rightarrow \begin{pmatrix} x \\ y \end{pmatrix} = A^{-1} \begin{pmatrix} 0 \\ -18 \end{pmatrix} \qquad A^{-1} = ?$$

Confine que:
$$A^{-1} = \begin{pmatrix} -35 & 4 & -9 \\ -20 & 5 & -32 \end{pmatrix}$$

$$\begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} -35 & 4 & -9 \\ -20 & 5 & -32 \end{pmatrix} \begin{pmatrix} -18 \\ -8 & -3 \end{pmatrix}$$

$$\begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} -35 & 0 & +9 & (-18) + (-9) & (-8) \\ -20 & 5 & -32 \end{pmatrix} \begin{pmatrix} -18 \\ -8 & -3 \end{pmatrix} = \begin{pmatrix} 0 \\ 6 \\ -20 & 5 & -32 \end{pmatrix}$$

$$\begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} -35 & 0 & +9 & (-18) + (-9) & (-8) \\ -20 & 0 & +5 & (-18) + (-12) & (-8) \end{pmatrix} = \begin{pmatrix} 0 \\ 6 \\ -4 \end{pmatrix}$$

$$\begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} -35 & 0 & +9 & (-18) + (-9) & (-9) \\ -20 & 0 & +5 & (-18) + (-12) & (-8) \end{pmatrix} = \begin{pmatrix} 0 \\ 6 \\ -4 \end{pmatrix}$$

$$\begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} -35 & 4 & -9 \\ -20 & 5 & -32 \end{pmatrix} \begin{pmatrix} -18 \\ 8 & -3 & 5 \end{pmatrix}$$

$$\begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} -35 & 4 & -9 \\ -20 & 5 & -32 \end{pmatrix}$$

$$\begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} -35 & 4 & -9 \\ -20 & 5 & -32 \end{pmatrix}$$

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$$\begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} -35 & 0 & +9 & (-18) + (-19) & (-9) & (-9) \\ -20 & 0 & -3 \end{pmatrix}$$

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$$\begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} -35 & 0 & +9 & (-18) & (-18) & (-18) & (-18) & (-9) & (-9) \\ -20 & 0 & -3 \end{pmatrix}$$

$$\begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} -35 & 0 & +9 & (-18)$$