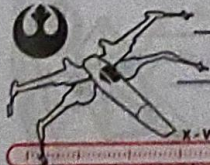


$$1. \begin{bmatrix} -6,4 & 0,4 & 5 \\ -6,7 & -4 & 14 \\ -9,5 & 6 & 5,3 \end{bmatrix} = \begin{bmatrix} 6,4 & 0,4 & 5 \\ 0 & -2,81 & -2,8 \\ -9,5 & 6 & 5,3 \end{bmatrix} =$$

$$\begin{bmatrix} -6,4 & 0,4 & 5 \\ 0 & -7,8 & -2,8 \\ 0 & 5,4 & -12,7 \end{bmatrix} = \begin{bmatrix} -6,4 & 0,4 & 5 \\ 0 & -7,8 & -2,8 \\ 0 & 0 & -14,68 \end{bmatrix} = U$$

$$\begin{bmatrix} 1 & 0 & 0 \\ 1,04 & 1 & 0 \\ 1,48 & -0,69 & 1 \end{bmatrix} = L$$

757-7125



X-WING SQUADRON

STAR
OF THE LAST JEDI
WARS

DOM SEG TER QUA QUI SEX SÁB

1 1

2)

$$\begin{pmatrix} 6,8 & 9,2 & 7,6 & 96 \\ -4,7 & -3,2 & 6,7 & 69,1 \\ -4,2 & 5,3 & -9,9 & 99,3 \end{pmatrix} \quad \begin{pmatrix} 6,8 & 9,2 & 7,6 & 96 \\ 0 & 3,15 & 11,95 & 135,45 \\ -4,2 & 5,3 & -9,9 & 99,3 \end{pmatrix}$$

$$\begin{pmatrix} 6,8 & 9,2 & 7,6 & 96 \\ 0 & 3,15 & 11,95 & 135,45 \\ 0 & 10,98 & -0,20 & 103,59 \end{pmatrix} \quad \begin{pmatrix} 6,8 & 9,2 & 7,6 & 96 \\ 0 & 3,15 & 11,95 & 135,45 \\ 0 & 0 & -41,76 & -367,33 \end{pmatrix}$$

$$-41,76 \cdot x_3 = -367,33 \rightarrow x_3 = 8,79...$$

$$3,15 x_2 = 135,45 - 11,95 x_3 \rightarrow x_2 = 9,5976...$$

$$6,8 x_1 + 9,2 x_2 + 7,6 x_3 = 96 \rightarrow x_1 = -8,698030$$

$$3) \quad 9,2x - 9,4y + 9,9z = -116,9$$

$$5,7x + 2,8y + 0,4z = -19,4$$

$$0,2x + 5,9y - 5,8z = 66,3$$

$$x_{k+1} = \frac{1}{9,2} (-116,9 + 9,4y_k - 9,9z_k)$$

$$y_{k+1} = \frac{1}{7,8} (-19,4 - 5,7x_{k+1} - 0,4z_k)$$

$$z_{k+1} = \frac{1}{-5,8} (66,3 + 0,2x_{k+1} - 5,9y_{k+1})$$

$$1^\circ \quad x_1 = \frac{1}{9,2} (-116,9 + 9,4(3,2) - 9,4(8,2)) = \frac{1}{9,2} (-66,2) = -7,2$$

$$y_1 = \frac{1}{7,8} (-19,4 - 5,7(-7,2) - 0,4(-8,2)) = \frac{1}{7,8} (29,92) = 3,199$$

$$z_1 = \frac{1}{-5,8} (66,3 + 0,2(-7,2) - 5,9(3,199)) = \frac{1}{-5,8} (19,60) = -8,20$$

17777777



STAR WARS

TIE FIGHTER/SF

$$\textcircled{2^\circ} x_2 = \frac{1}{9,2} (-116,4 + 9,9(3,1999) - 9,9(-8,2082)) = \frac{1}{9,2} (-66,2249) = -7,1985$$

$$y_2 = \frac{1}{2,8} (-19,4 - 5,7(-7,1985) - 0,4(-8,2082)) - \frac{1}{2,8} (29,9199)$$

$$= 3,1942$$

$$z_2 = \frac{1}{58} (66,3 + 0,2(-7,1985) - 5,4(3,1992)) - \frac{1}{58} (42,6116)$$

$$= -8,2089$$

$$\textcircled{3} \quad x_3 = \frac{1}{9,2} (-116,4 + 9,4(3,1992) - 9,4(8,2689)) = \frac{1}{9,2} (-66,2264) = -7,1985$$

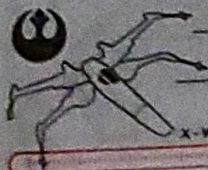
$$y_3 = \frac{1}{7,8} (-19,4 - 5,2(-7,1985) - 0,4(-8,2089)) = \frac{1}{7,8} (29,9151)$$

$$= 3,1942$$

$$z_3 = \frac{1}{-58} (66,3 + 0,2(-7,1986) - 5,4(3,1942)) = \frac{1}{-58} (47,614) = -8,2089$$

$$S = \{-7, 1985, 3, 1942, -8, 2089\}$$

$$|x_3 - x_2| < 0,001 \quad |y_3 - y_2| < 0,001 \quad |z_3 - z_2| < 0,001$$



5) Já ajustando a dominância

$$-19,5x - 8,1y - 5,3z = 152,8$$

$$-3,9x + 15,1y + 9,5z = -3,3$$

$$2x - 2,7y + 6,4z = 51,8$$

$$x_{k+1} = \frac{1}{-19,5} (152,8 + 8,1y_k + 5,3z_k)$$

$$y_{k+1} = \frac{1}{15,1} (-3,3 + 3,9x_k - 9,5z_k)$$

$$z_{k+1} = \frac{1}{6,4} (51,8 - 2x_k + 2,7y_k)$$

$$\textcircled{1} x_1 = \frac{1}{-19,5} (152,8 + 8,1(-7,5) + 5,3(7,8)) = \frac{1}{-19,5} (133,39) = -9,1993$$

$$y_1 = \frac{1}{15,1} (-3,3 + 3,9(-9,2) - 9,5(7,8)) = \frac{1}{15,1} (-113,38) = -7,502$$

$$z_1 = \frac{1}{6,4} (51,8 - 2(-9,2) - 2,7(-7,5)) = \frac{1}{6,4} (99,95) = 7,8097$$

$$\textcircled{2} x_2 = \frac{1}{-19,5} (152,8 + 8,1(-7,502) + 5,3(7,8097)) = \frac{1}{-19,5} (133,3988) = -9,1999$$

$$y_2 = \frac{1}{15,1} (-3,3 + 3,9(-9,1993) - 9,5(7,8097)) = -7,5093$$

$$z_2 = \frac{1}{6,4} (51,8 - 2(-9,1993) - 2,7(-7,502)) = 7,8036$$

$$\textcircled{3} x_3 = \frac{1}{-19,5} (133,3207) = -9,198$$

$$y_3 = \frac{1}{15,1} (-113,3142) = -7,5093$$

$$z_3 = \frac{1}{6,4} (99,937) = 7,8022$$

HINAKEN



DOM SEG TER QUA QUI SEX SÁB

$$\textcircled{4} x_4 = \frac{1}{-14,5} (133,3696) = -9,1979$$

$$y_4 = \frac{1}{15,1} (-113,2973) = -7,5031$$

$$z_4 = \frac{1}{6,9} (49,9345) = 7,8523$$

$$\textcircled{5} x_5 = \frac{1}{-14,5} (133,3766) = -9,1984$$

$$y_5 = \frac{1}{15,1} (-113,2933) = -7,5029$$

$$z_5 = \frac{1}{6,9} (49,9373) = 7,8027$$