

min 2x, - 3x2 + x3 $3x_1 + 2x_2 = 12$ 5+d $4x_1 + 2x_1 + 3x_3 \ge 2 = 0$ $2x_1 + \frac{1}{2}x_2 - 2x_3 \le 4$ X20, X20, X530 min 2x, - 3x, + x3 X1, X2, X3, X4, X8 30 3 x1 + 2 x2 4x1+2x2-3x3-x4 = 2 $2x_1 + \frac{1}{4}x_2 - 2x_3 + x_5 = 4$ $\begin{array}{c|c}
 & C_1 \\
 & C_2 \\
 & C_3
\end{array}$ $\begin{array}{c|c}
 & C_3 \\
 & C_3
\end{array}$ · Verifica amonissibilità 12=12 OK 12=12 OK $10 \ge 2$ $12 \ge 2$ $13 \ge 2$ $26 \le 4$ $27 \le 4$ 2· 5BA 14,0,2,8,0 12 = 12 & vor to = × vincoli = S13A 10 - x4 =2 =1> x4 = 8 4 + 15=4=0 16=0

$$\begin{cases} 24 + 4y_2 + 2y_3 - 1 = 0 & \Rightarrow 5 \neq 1 = \frac{2}{3} \\ -2y_1 - 2y_3 - 1 = 0 = 0 - 2y_3 = 1 \Rightarrow 9 + 2 = -\frac{1}{2} \\ y_2 = 0 & \Rightarrow 6 = 0 \end{cases}$$

$$\begin{cases} 42 = 0 & \Rightarrow 6 = 0 \\ 42 = 0 & \Rightarrow 6 \end{cases}$$

$$\begin{cases} 23 = (-3) \\ 24 = (-3) \\ 24 = (-3) \\ 24 = (-3) \end{cases}$$

$$\begin{cases} 24 + 2x_2 - 2x_3 - 2 \\ 24 = (-3) = (-3) \end{cases}$$

$$\begin{cases} 24 + 2y_1 + 2y_2 + 2x_3 - 4 \\ 24 = (-3) = (-3) \end{cases}$$

$$\begin{cases} 24 + 2y_1 + 2y_2 + 2y_3 + 2 = 0 \\ 3y_1 = (-3) \end{cases}$$

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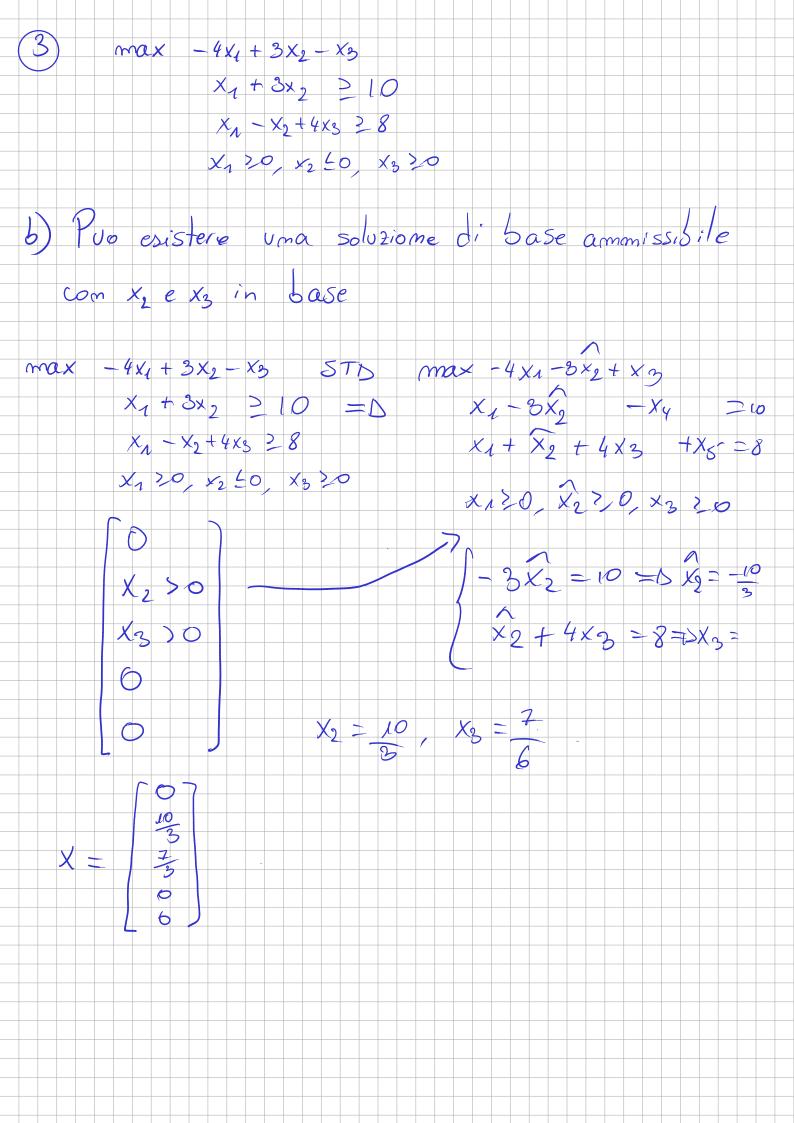
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c) Puo esistere una soluzione ottimo del Problema con xi in bose max -4x1-3x2+x3 $X_1 - 3X_2 - X_4 = 20$ X1+ X2 + 4X3 +X5 = 8 X120, X270, X3 20 X₁ >0 150 $x_1 - 3x_2 = 10 = 0$ $x_1 = 10 + 3x_2 = 10 + 3x_2$ $x_1 + x_2 = 3 = 0 + 0 + 3x_2 + x_3 = 8 = 0 + 4x_2 = -2 = 0 + 2 = -1$ $= 5 \times 2 = \frac{1}{2} = 10 \times 10 = 10 \times 10 = 12$

$$ma \times -4x_{1} + bx_{2} + x_{3} = x_{1} = x_{1} = x_{2} = x_{3} = x_{1} = x_{2} = x_{3} = x_{1} = x_{2} = x_{2} = x_{2} = x_{3} = x_{2} = x_{3} = x_{2} = x_{3} = x_{2} = x_{3} = x_{3$$

Sd =
$$\begin{pmatrix} 4 \\ 3 \\ 6 \end{pmatrix}$$
 = $6 \times 2 = 0$

At 4×5

Complementaried as

Prince Ristretto

min a + az

- 44×5 a, az

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