

MAX $Z = 5x_1 + 4x_2$
S.A.

x_1 = ton de tinta p/ exteriores produzi-
das diariamente
 x_2 = " " interiores " "
~~exteriores~~

$$6x_1 + 4x_2 \leq 24 \rightarrow 6x_1 + 4x_2 \leq 24$$

$$x_1 + 2x_2 \leq 6$$

$$x_2 - x_1 \leq 1$$

$$r_2 \leq 2$$

φραση $\hookrightarrow X_2 = 2$

$$x_1, x_2 \geq 0$$

1

$$\rightarrow x_2 \leq 6 - x_1 \rightarrow x_2 = 0 \rightarrow x_1 = 6$$

$$\rightarrow x_2 \leq 1 + x_1$$

$$x_1 + x_2 = 1 \rightarrow x_1 = 0 \rightarrow x_2 = 1$$

$\rightarrow X_2 = 0 \Rightarrow X_1 = -1$

$$\rightarrow x_1 = 0 \rightarrow x_2 = 6$$

$$x_2 = \frac{12 - 3.0}{2}$$

$$x_2 = 6$$

$$\rightarrow x_2 = 0 \rightarrow x_1 = 4$$

$$3x_1 = 12$$

$x_1 = 4$

$$* r_2 = 2$$

$$* \quad \gamma_2 = 1 + \gamma_1$$

$$1 + x_1 = 2$$

$$x_1 = 1$$

$$* x_2 = 2$$

$$* x_2 = 6 - x_1$$

2

$$6 - x_1 = 4$$

$x_1 = 2$

$$* \quad x_2 = \frac{12 - 3x_1}{3} \quad \left. \begin{array}{l} 12 - 3x_1 = 6 - x_1 \\ 3x_1 - x_1 = 12 - 6 \end{array} \right\}$$

$$\left. \begin{aligned} x_2 &= \frac{6 - x_1}{2} \end{aligned} \right\} \begin{aligned} 2x_1 &= 6 \\ x_1 &= 3 \end{aligned}$$

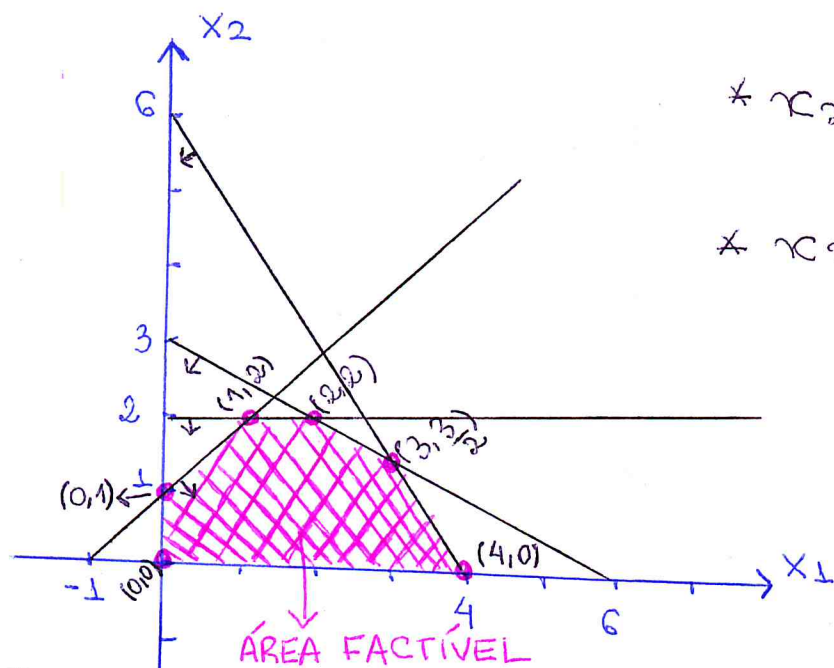
$$x_2 = \frac{6-3}{2} = \frac{3}{2}$$

→ A sol. ótima é produzir 3 ton de tinta p/ exteriores e $3/2$ ton de tinta para interiores

4. $\frac{3}{2} = 2,1$ diariamente

$$Z^*(3, 3/2) = 15 + 4 \cdot \frac{3}{2} = 21 \text{ diariamente}$$

$$Z(4,0) = 20$$



$$Z = 5x_1 + 4x_2$$

$$Z(0,0) = 0$$

$$Z(0,1) = 4$$

$$Z(1,2) = 5 + 8 = 13$$

$$Z(2,2) = 10 + 8 = 18$$