

$$\text{Max } z = 6x_1 + 6x_2$$

$$\text{Sujeito a: } 10x_1 + 12x_2 \leq 22$$

$$2x_1 + 6x_2 \leq 10$$

$$x_1, x_2 \geq 0$$

a) Modelo Dual

$$\text{Minimizar } z = 22y_1 + 10y_2$$

$$\text{Sujeito a: } 10y_1 + 2y_2 \geq 6$$

$$12y_1 + 6y_2 \geq 6$$

$$y_1, y_2 \geq 0$$

b) Base y_1, y_2, y_3, y_4, b

soi	y_3	-10	-2	1	0	-6	$\frac{-22}{-10}, \frac{-10}{-2}$
	y_4	-12	-6	0	1	-6	$2\frac{1}{5}, 5$
	z	-22	-10	0	0	0	

↑
entra

Base y_1, y_2, y_3, y_4, b

y_1	1	$\frac{1}{5}$	$-\frac{1}{10}$	0	$\frac{3}{5}$
y_4	0	$-\frac{18}{5}$	$-\frac{6}{5}$	1	$\frac{6}{5}$
z	0	$-\frac{36}{10}$	$-\frac{11}{5}$	0	$\frac{66}{5}$

$$-6 - \left(\frac{-22 \cdot -10}{-10} \right) =$$

$$\frac{-30}{5} + \frac{12}{5} = \frac{-18}{5}$$

$$-90 + \frac{44}{10} = \frac{-90}{10}$$

$$-6 - \left(\frac{-6 \cdot -10}{-10} \right) =$$

$$-6 + \frac{30}{5} = \frac{6}{5}$$

$$\frac{-6 \cdot -22}{-10} = \frac{132}{10}$$

$$y_1 = \frac{3}{5}$$

$$y_4 = \frac{6}{5}$$

$$z = \frac{66}{5}$$