

Resolva graficamente os seguintes PL's:

1-

$$\text{Maximizar } f(x_1, x_2) = x_1 + 2x_2$$

$$x_1 + x_2 \leq 4$$

$$x_1 \leq 2$$

$$x_2 \leq 3$$

$$x_1 \geq 0, x_2 \geq 0.$$

2-

$$\text{Maximizar } f(x_1, x_2) = x_1 + x_2$$

$$-3x_1 + x_2 \leq 2$$

$$x_2 \leq 3$$

$$x_1 + 2x_2 \leq 9$$

$$3x_1 + x_2 \leq 18$$

$$x_1 \geq 0, x_2 \geq 0.$$

3-

$$\max Z = 3x_1 + 2x_2$$

$$2x_1 + x_2 \leq 100$$

$$x_1 + x_2 \leq 80$$

$$x_1 \leq 40$$

$$x_1 \geq 0, x_2 \geq 0$$