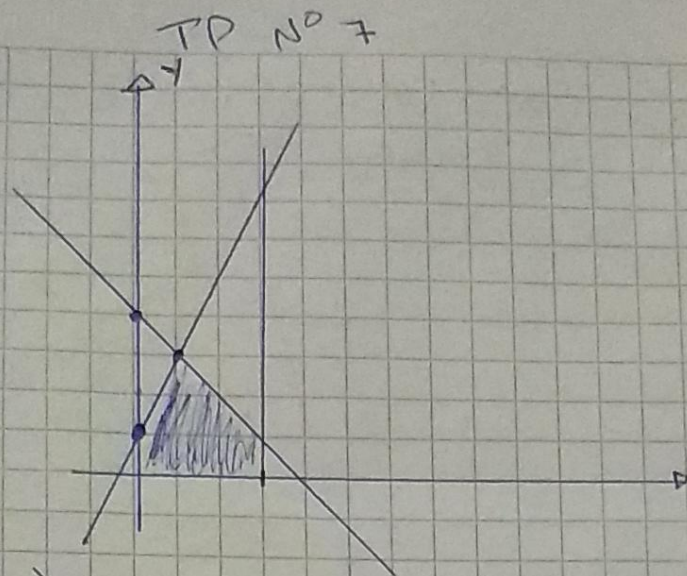


$$\begin{aligned}
 1) \quad & y \leq 2x + 1 \\
 & y \leq 4 - x \\
 & 0 \leq x \leq 3 \\
 & y \geq 0
 \end{aligned}$$



$$2) A) F(x, y) = x + y$$

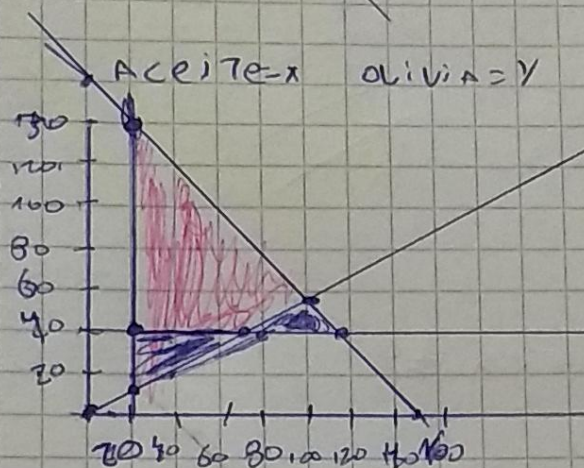
$$20 \leq x$$

$$40 \leq y$$

$$y \geq \frac{1}{2}x$$

$$x + y \leq 150$$

LO ROSA ES EL RESULTADO



50

$(40; 40)$  60 DE GASTO MIN

$(80; 40)$  120 DE GASTO

$(20; 130)$  150 DE GASTO MÁX

$(100; 50)$  150 DE GASTO MÁX

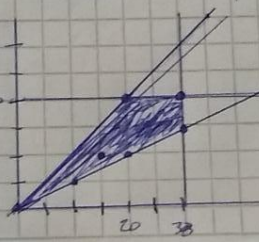
b)  $x = \text{MECANICOS}$   $y = \text{Elec.}$   $F(x,y) = 200x + 250y$

~~$y \leq x$~~   $y \leq x$  30

$x \leq y$  20

$x \leq 30$

$y \leq 20$



(0;0) 0 TRABAJADORES Y GANANCIA

(30;20) 11000 GANANCIA

(20;20) 9000 GANANCIA

(30;15) 9750 GANANCIA

$$x \leq 30$$

$$x \leq y$$

$$y \leq 20$$

$$\overline{(x = 20)}$$

$$\frac{1}{2}x \leq y$$

$$x \leq 30$$

$$1.30 \leq y$$

c)  $F(x,y) = 270x + 210y$

SOLDADOS =  $x$

TRENES =  $y$

	$x$	$y$
MP	100	90
CL	140	100
CA	$1x + 1y \leq 80$	
PA	$2x + 1y \leq 100$	

RESTO LOS GASTOS

$$270 - 100 - 140 = 30$$

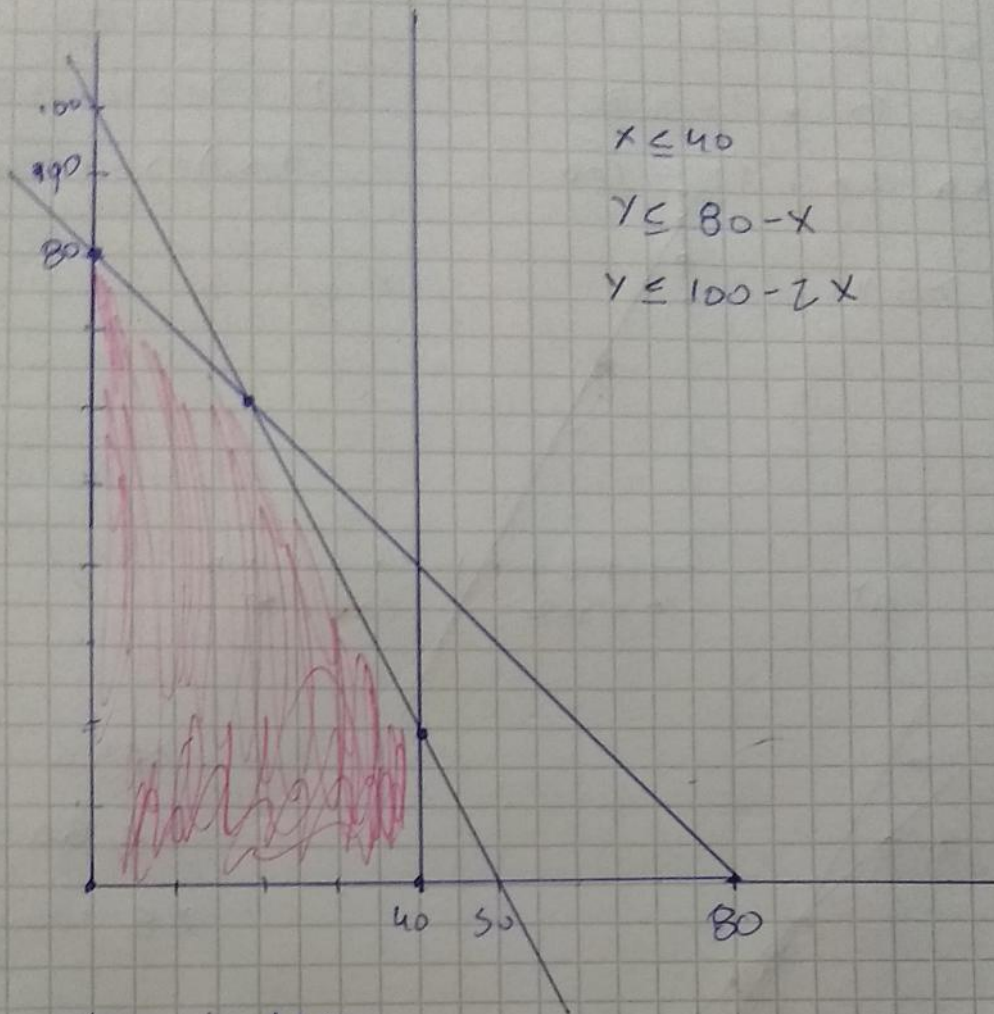
$$210 - 90 - 100 = 20$$

CA  $1x + 1y \leq 80$

PA  $2x + 1y \leq 100$

$$F(x,y) = 30x + 20y$$





$$x \leq 40$$

$$y \leq 80 - x$$

$$y \leq 100 - 2x$$

$$(0; 80) \quad \$1600$$

$$(40; 0) \quad \$1200$$

$$(40; 20) \quad \$1600$$

$$(20; 60) \quad \underline{\underline{\$1800}}$$

$$* y = 100 + 2 \cdot 40$$

$$y = 20$$

$$80 - x = 100 - 2x$$

$$\underline{\underline{x = 20}}$$

$$y = 80 - 20$$

$$\underline{\underline{y = 60}}$$