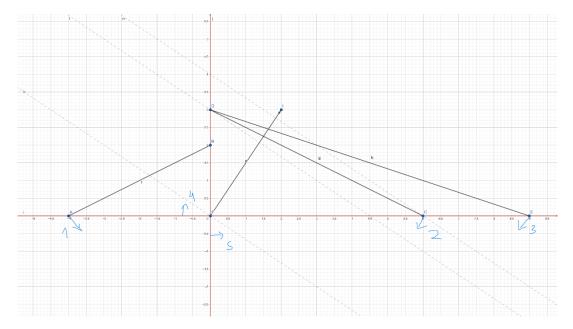
1.1-

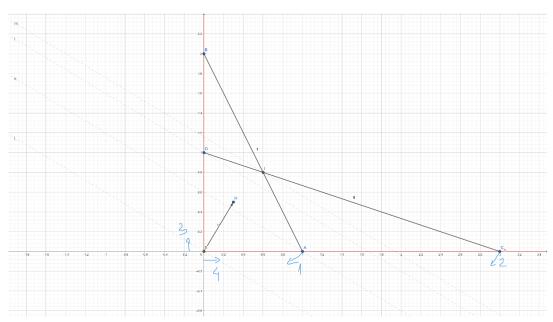


Maximizar: LUCRO = 2x1 + 3x2

$$X1 = 6$$
; $x2 = 0$

$$X1 = 0; x2 = 3$$

1.2 –



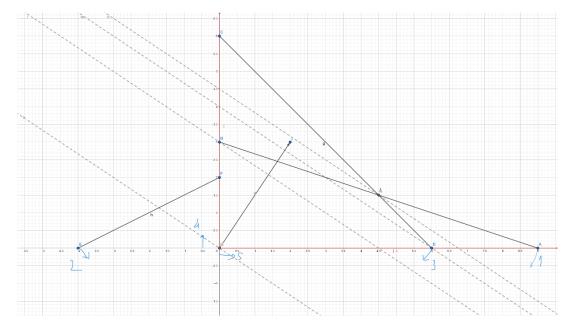
Maximizar: RECEITA = $0.3 \times 1 + 0.5 \times 2$

$$X1 = 1; x2 = 0$$

$$X1 = 0; x2 = 1$$

$$X1 = 0.6$$
; $x2 = 0.8$

1.3 –

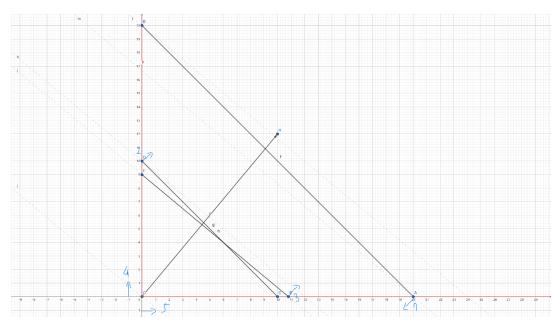


Maximizar: LUCRO = 2x1 + 3x2

$$X1 = 6$$
; $x2 = 0$

$$X1 = 0; x2 = 3$$

1.4 –



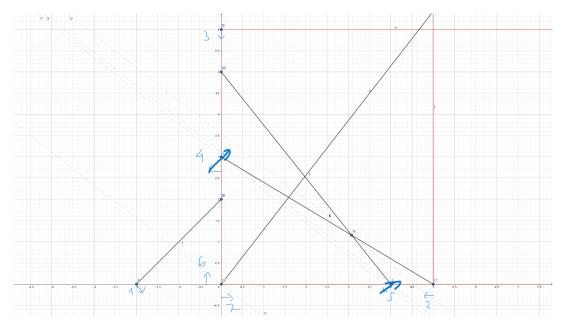
Minimizar: CUSTO = $10 \times 1 + 12 \times 2$

$$X1 = 0$$
; $x2 = 10$

$$X1 = 6$$
; $x2 = 4$

$$X1 = 10.8$$
; $x2 = 0$

1.5 –



Minimizar: $Z = 7 \times 1 + 9 \times 2$

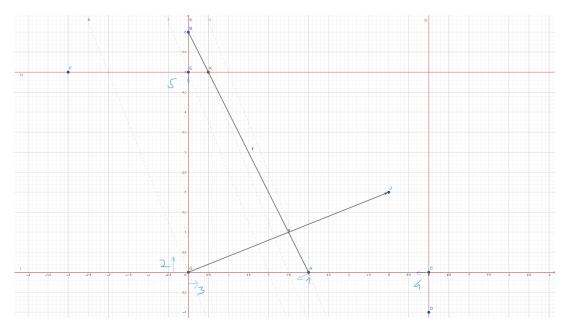
$$X1 = 0$$
; $x2 = 5$

$$X1 = 5$$
; $x2 = 0$

$$Z = 35$$

$$Z = 32 *$$

2 –

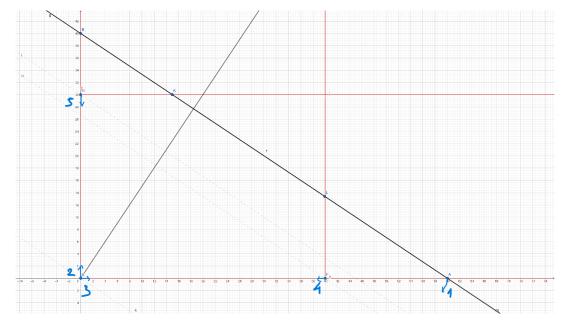


Maximizar: LUCRO = $5 \times 1 + 2 \times 2$

$$X1 = 0$$
; $x2 = 5$

$$X1 = 3; x2 = 0$$

Ociosidade de 30 min/hora



Maximizar: LUCRO = $100 \times 1 + 150 \times 2$

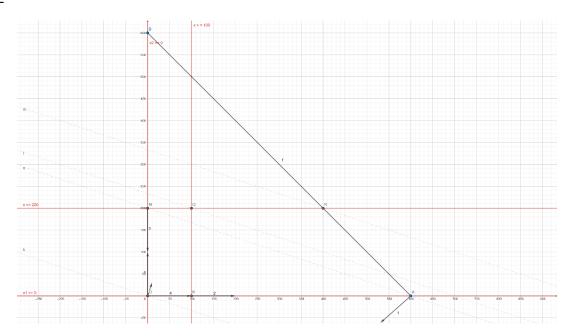
$$X1 = 0$$
; $x2 = 30$

$$X1 = 40$$
; $x2 = 0$

$$X1 = 40$$
; $x2 = 13$

Ociosidade demanda P1 = 25 unidades

4 –



Maximizar: LUCRO = 10 x1 + 30 x2 + 4000

X1=100; x2=200

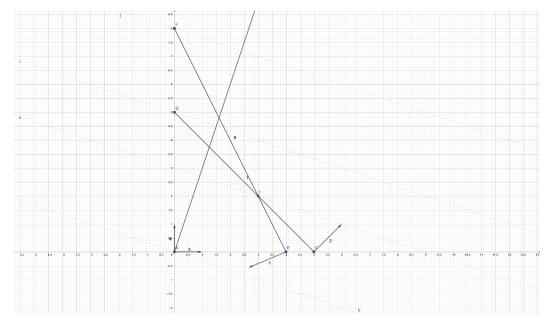
X1 = 400; x2 = 200

X1 = 600; x2 = 0

LUCRO = 11000

LUCRO = 14000*

LUCRO = 10000



Maximizar: TELE = 30000 x1 + 10000 x2

X1=0; x2=5

X1 = 0; x2 = 8

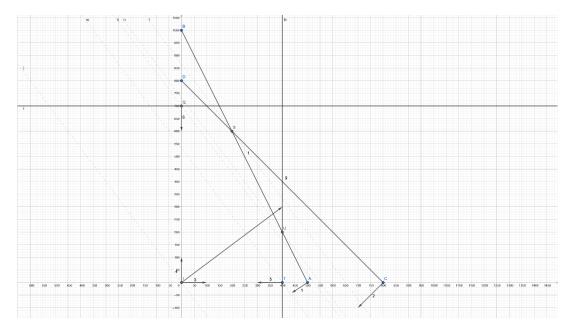
X1 = 3; x2 = 2

TELE = 50000

TELE = 80000

TELE = 110000*

6 –



Maximizar: LUCRO = $4 \times 1 + 3 \times 2$

X1=0; x2=700

X1 = 200; x2 = 600

X1= 400; x2= 200

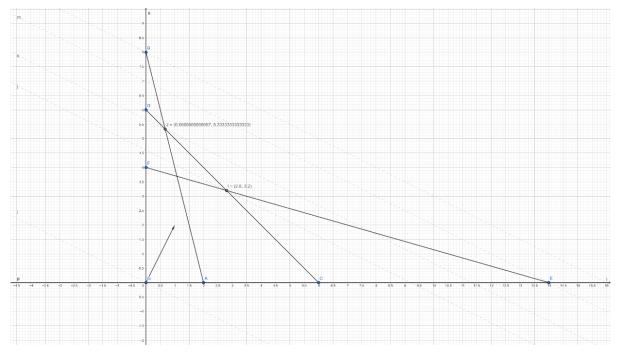
X1= 400; x2= 0

LUCRO = 2100

LUCRO = 2600*

LUCRO = 2200

LUCRO = 1600



Minimizar: MINIMIZAR = $1000 \times 1 + 2000 \times 2$

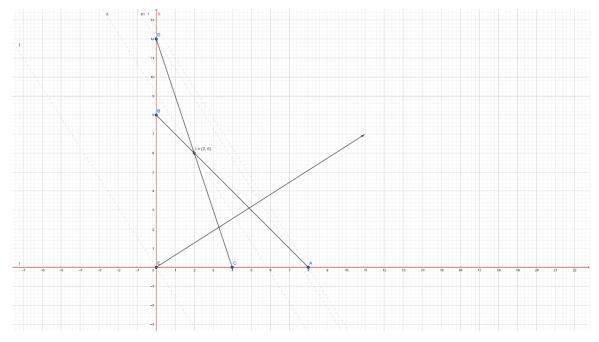
LUCRO = 11330 LUCRO = 9200*

8-
$$X_{1} \Rightarrow h^{\circ} \text{ de comunhões obtipo A}$$

$$X_{2} \Rightarrow h^{\circ} \text{ de comunhões obtipo B}$$
for minimizare
$$X_{1} \cdot 1000 + X_{2} \cdot 700$$
rest.
$$X_{1} \cdot 2 + X_{2} \cdot 2 \ge 16$$

$$X_{1} \cdot 3 + X_{2} \cdot 1 \ge 12$$

$$X_{1} \cdot X_{2} \ge 0$$



MINIMIZAR: CUSTO = 1100 x1 + 750 x2

X1=2 x2=6

CUSTO = 6700*

9-
$$X_1 \rightarrow q v c u h d d d e P_2$$

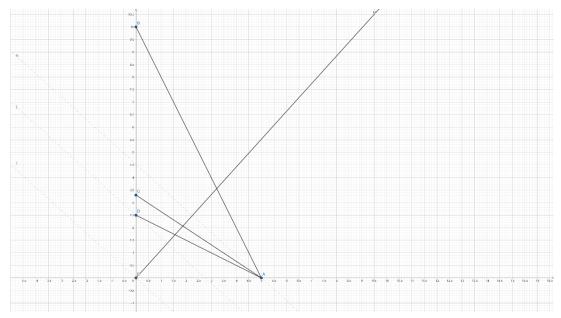
A) Minuted

For improprime and maximized R

 $X_1 \cdot 1900 + X_2 \cdot 2100$

1054,

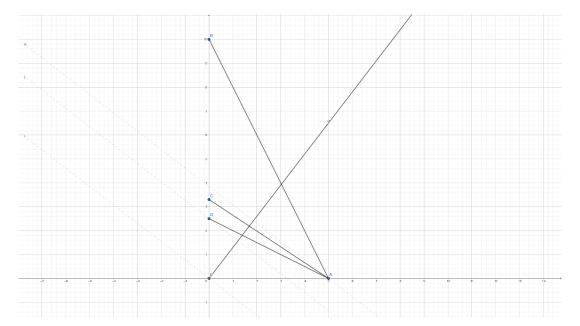
 $X_1 \cdot A + X_2 \cdot 2 \cdot 20$
 $X_1 \cdot 2 + X_2 \cdot 3 \cdot 10$
 $X_1 \cdot 100 + X_2 \cdot 200 \cdot 500$
 $X_1 \cdot 100 + X_2 \cdot 200 \cdot 500$
 $X_1 \cdot 1000 + X_2 \cdot 1300$
 $X_1 \cdot 1000 + X_2 \cdot 1300$



Maximizar: LUCRO = 1900 x1 + 2100 x2

X1=0; x2=3.3 X1=0; x2=2.5 X1=5; x2=0

LUCRO = 6930 LUCRO = 5250 LUCRO = 9500*



Maximizar: LUCRO = 1000 x1 + 1300 x2

X1=0; x2=3.3

X1 = 0; x2 = 2.5

X1= 5; x2= 0

LUCRO = 42900 LUCRO = 3250 LUCRO = 5000*

10 -

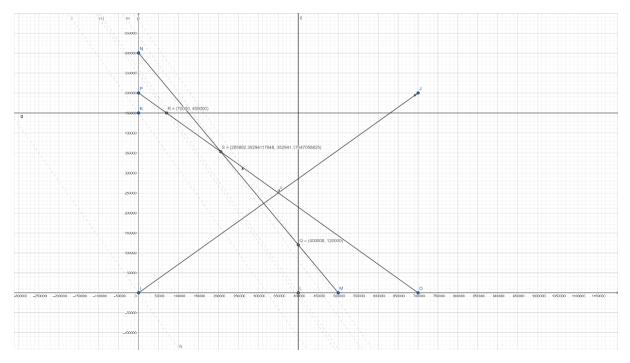
10.
$$X_1 \Rightarrow \text{ quantidade de gasolina}$$
 $X_2 \Rightarrow \text{ auantidade de gasolina}$

A. S. Imaximirar

 $X_1 \cdot 7 + X_2 \cdot 5$

Hest.

 $X_1 \leq 400000$
 $X_2 \leq 450000$
 $X_1 \leq 450000$
 $X_2 \leq 450000$
 $X_1 + b \cdot X_2 \leq C$
 $X_2 = 0 \Rightarrow X_1 \leq C = 500000$
 $X_1 + \frac{1}{2} \leq 1$
 $X_2 = 0 \Rightarrow X_1 \leq C = 600000$
 $X_1 + \frac{1}{2} \leq 1$
 $X_2 = 0 \Rightarrow X_1 \leq C = 500000$
 $X_1 + \frac{1}{2} \leq 1$
 $X_2 = 0 \Rightarrow X_2 \leq C = 500000$
 $X_1 + \frac{1}{2} \leq 1$
 $X_2 = 0 \Rightarrow X_2 \leq C = 500000$
 $X_1 + \frac{1}{2} \leq 1$
 $X_2 = 0 \Rightarrow X_2 \leq C = 500000$
 $X_1 + \frac{1}{2} \leq 1$
 $X_2 = 0 \Rightarrow X_2 \leq C = 500000$
 $X_1 + \frac{1}{2} \leq 1$
 $X_2 = 0 \Rightarrow X_2 \leq C = 500000$
 $X_1 + \frac{1}{2} \leq 1$
 $X_2 = 0 \Rightarrow X_2 \leq C = 500000$
 $X_1 + \frac{1}{2} \leq 1$
 $X_2 = 0 \Rightarrow X_2 \leq C = 500000$
 $X_1 + \frac{1}{2} \leq 1$



X1=400K;x2=120K

Maximizar: LUCRO = 7 x1 + 5 x2

X1=70K;x2=450K X1=206K;x2=353K

LUCRO=2740000 LUCRO=3207000 LUCRO=3400000