costo de Materia Prima

3) La materia Prima necesaria para satisfacer todos los Pedidos

6) El costo de cada tro de casa

c) El costo total de la materia Prima Para todas las casas.

$$q_{11} = (s \cdot s) + (7 \cdot 7) + (12 \cdot 6) = 146$$
  
 $q_{12} = (s \cdot 20) + (7 \cdot 18) + (12 \cdot 2s) = 526$   
 $q_{13} = (s \cdot 16) + (7 \cdot 12) + (12 \cdot 8) = 260$   
 $q_{14} = (s \cdot 7) + (7 \cdot 9) + (12 \cdot 8) = 158$   
 $q_{15} = (s \cdot 17) + (7 \cdot 21) + (12 \cdot 13) = 388$ 

QR=[146 S26 260 IS8 388]

$$AC = \begin{bmatrix} 49200 \\ 52800 \\ 46500 \end{bmatrix}$$

$$Q_{11} = 7500 + 16000 + 8000 + 700 + 17000 = 49200 \\ 921 = 10500 + 14400 + 6000 + 900 + 21000 = 52800 \\ 923 = 9000 + 20000 + 4000 + 500 + 13000 = 46500 \end{bmatrix}$$

911=(5.49200)+(7.52800)+(12.46500)911=(5.49200)+(7.52800)+(12.46500)

2) concesion de \$1,360,000 : 100 cientificos + B - \$8,000 A = 5B c (vantos científicos Pertenecen a cada grupo? Grupo = Variable A+B+C=100 A = X B = y 20000 A + 8,000 B + 10,000 C = 136 6,00000C = Z 20,000A - 40000B = 0 Creamos la matriz= A = (20 8 10 | 1360) R2-DR1(-20)+R2 20-40 0 | 0 | -20 -20 -2000 3-P21(-20)+R2 20 8 10 1360 -20 -20 -20 -2000 NR2= 0 -12 -10 -640 R3-P21(-20)+R2 20 -40 0 0 VR3=0 -60-20 -2000 Matriz Final A= (0-12-10 | 100) P2-P P2(-1/2)
A= (015/6 | 160/3
NP2=0 1 5/6 | 160/3
A= (015/6 | 160/3) R3-P R2(40)+R3
0 40 100/3 6400/3 X+9+2= 100-40-20=4 (X2 40) -100 Y= 20 Z= 40 0-40 0 0 Ne3=0 0 100/3 6400/3 A= ( 0 7 5/6 160/3 ) R3-Df3 (3/100)

A= ( 0 7 5/6 160/3 ) NB3 = 00 I 6H

3) ISO Euros -D 12 Articulos 
$$= \frac{0 \cdot 15 \cos 5 - 20 \cdot 10 \cdot 10 \cdot 10}{10 \cdot 10 \cdot 10 \cdot 10}$$
  
 $= \frac{0 \cdot 15 \cos 5}{10 \cdot 10 \cdot 10 \cdot 10}$   
 $= \frac{10 \cdot 10 \cdot 10}{10 \cdot 10 \cdot 10}$   
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Creamos la matrizz

$$A = \begin{bmatrix} 1 & 1 & 1 & 12 \\ 4 & 3 & 1 & 30 \\ 1 & -3 & 1 & 0 \end{bmatrix} R2 - PR1(-1) + P2 \qquad R3 - PR1(-1) + P3$$

$$-4 & -4 & -4 & -48 \qquad -1 & -1 & -12$$

$$-4 & 3 & 1 & 30 \qquad 1 & -3 & 1 & 0$$

$$N22 = 0 & -1 & -3 & -18 \qquad N23 = 0 & -4 & 0 & -12$$

$$A = \begin{bmatrix} 1 & 1 & 1 & 12 \\ 0 & -1 & -3 & -18 \\ 0 & -4 & 0 & | & -12 \end{bmatrix} R2 - PR2(-1)$$

$$R3 - PR2(4) + R3$$

$$R4 - PR2(-1) + R4$$

$$0 - 1 - 3 - 18$$

$$NR3 = 0 - 4 0 - 12$$

$$NR3 = 0 0 12 60$$

0-1-3-18 1 1 1 12 NP1=1 0 -2 -6

$$A = \begin{bmatrix} 1 & 0 & -2 & | & -6 \\ 0 & 1 & 3 & | & 18 \\ 0 & 0 & 12 & | & 60 \end{bmatrix} R_3 - D R_3(1/12)$$

$$R_1 - D R_3(2) + R_1$$

$$R_2 - D R_3(-3) + R_2$$

$$R_2 - D R_3(-3) + R_2$$

$$R_1 - D R_3(2) + R_1$$

$$R_2 - D R_3(-3) + R_2$$

$$R_1 - D R_3(2) + R_1$$

Se an comprado 5 carpetas

$$A = \begin{bmatrix} 3 & 15 & 17 & 19 \\ 6 & 2 & 21 & 60 \\ 0 & 0 & 1 & 50 \\ 0 & 0 & 0 & -1 \end{bmatrix}$$

$$(-2+6+6)-(0+0+0) = -2 = A_{11}$$
  
 $1A1=-(3)(-2) = -6$   $1A1=-6$