

Problema 4

Costo mínimo

	Región Occidente	Región Oriente	Región central	Oferta
El Salvador	200 ¹²	3,500 ⁷	3,500 ¹⁰	7,200
Honduras	5,300 ⁸	3,500 ¹¹	3,500 ⁹	5,300
Demanda	5,500	3,500	3,500	12,500

Por banquillo

	Re Occ	Re Or	Re Ce
Salvador	200 ¹²	3,500 ⁷	3,500 ¹⁰
Honduras	5,300 ⁸	"	"

Honduras Re Or = $11 - 8 + 1 - 7 = 5$

Honduras Re Ce = $9 - 10 + 11 - 8 = 2$

$$CT = (200 \cdot 12) + (5,300 \cdot 8) + (3,500 \cdot 7) + (3,500 \cdot 10)$$

$$CT = 104,300$$

Por multiplicadores

	V_1 Re Occ	V_2 Re Or	V_3 Re Ce	Oferta
Salvador	200 ¹²	3,500 ⁷	3,500 ¹⁰	7,200 ^{u1}
Honduras	5,300 ⁸	"	"	5,300 ^{u2}
Demanda	5,500	3,500	3,500	

$$u1 = 0$$

$$V1 = 12$$

$$u1 + V3 = 10$$

$$V3 = 10$$

$$u2 + V2 = 7$$

$$V2 = 7$$

$$u2 + V1 = 8$$

$$u2 = -4$$

$$C_{12} = 11 - (-4 + 7) = 8$$

$$C_{23} = 9 - (-4 + 10) = 3$$

$$CT = (200 \cdot 12) + (3,500 \cdot 7) + (3,500 \cdot 10) + (5,300 \cdot 8)$$

$$CT = 104,300$$

✓ 1. Por banquillo: Q. 104,300.00

2. Por multiplicadores: Q. 104,300.00