

الماضرة الثانية عشرة :

A \ B	q_1	q_2	Min
(X) P_1	-3	7	-3
(LX) P_2	6	1	1
Max	6	7	6/1

: dx_2

A) $F = t_1 + t_2 \rightarrow \text{Min}$

$$-3t_1 + 6t_2 \geq 1$$

$$7t_1 + t_2 \geq 1$$

$$t_1, t_2 \geq 0$$

B) $Z = S_1 + S_2 \rightarrow \text{Max}$

$$-3S_1 + 7S_2 \leq 1$$

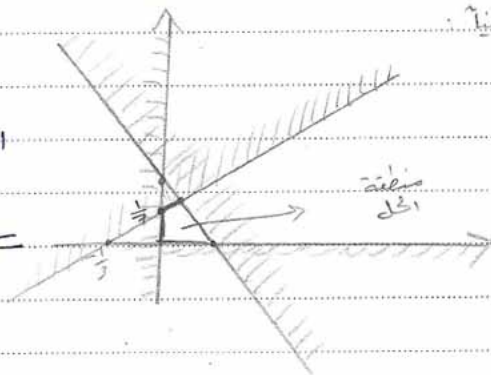
$$6S_1 + S_2 \leq 1$$

$$S_1, S_2 \geq 0$$

$$-3S_1 + 7S_2 = 1$$

$$6S_1 + S_2 = 1$$

$$\left(\frac{2}{15}, \frac{1}{5}\right) \leftarrow$$



: P_1 de

	Z
(0,0)	0
(0, $\frac{1}{7}$)	$\frac{1}{7}$
($\frac{2}{15}, \frac{1}{5}$)	$\frac{1}{3}$
($\frac{1}{6}, 0$)	$\frac{1}{6}$

$$\frac{1}{g} = \frac{1}{3} \Rightarrow g = 3$$

$$S_1 = \frac{2}{15}, S_2 = \frac{1}{5}$$

$$S_1 = \frac{y_1}{g} \Rightarrow \frac{2}{15} = \frac{y_1}{3} \Rightarrow y_1 = \frac{2}{5}$$

$$S_2 = \frac{y_2}{g} \Rightarrow \frac{1}{5} = \frac{y_2}{3} \Rightarrow y_2 = \frac{3}{5}$$

المحدد Simplex في الطريقة المعروفة ---- (معدل)

$$Z = \frac{1}{3} \Rightarrow g = 3$$

$$t_1 = \frac{1}{g} \Rightarrow B(P_1) = \frac{1}{3}$$

$$t_2 = \frac{2}{g} \Rightarrow B(P_2) = \frac{2}{3}$$

$$t_1 = \frac{1}{g}, t_2 = \frac{2}{g}$$

من جدول ال Simplex

مقابل المحاور الأولى

في دالة الهدف

$$t_1, t_2$$

$$t_1 = \frac{x_1}{g}$$

$$x_1 = t_1 \cdot g \Rightarrow x_1 = \frac{1}{3}$$

$$x_2 = \frac{2}{3}$$