

(B,A) :

(2) (A)

3

6

(B)

1000

2400

( 20)

(B)

(

30) (A)

:

-1

-2

:

(A)

(B)

✓

✓

:

(A)

(X)

(B)

(Y)

(Z)

:

-

20 (A)

20X

30 (B)

30Y

[MAX] Z = 20X + 30Y :

:

-

:

3X + 6 Y ≤ 2400

:

✓

3

(A)

(3X)

(6Y)

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2400

$2X + Y \leq 1000$  :

( 1000)

2 (A)

(2X)

(B)

(Y)

(1Y)

1000

$Y \geq 0$   $X \geq 0$  ( ) - ✓  
(B A)

( )

[MAX]  $Z = 20X + 30Y$   
 $3X + 6Y \leq 2400$   
 $2X + Y \leq 1000$   
 $X \geq 0$   
 $Y \geq 0$

( )

.....  $\ln Y, \log X, Y^2, XY$ :

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$3X + 6Y \leq 2400$  -----(01)

$2X + Y \leq 1000$  -----(02)

:  $\Delta_1$

(X = 0)

$3(0) + 6Y \leq 2400 \Rightarrow Y \leq (2400/6) \Rightarrow Y \leq 400 \quad Y \in [0 \quad 400]$

$$(Y = 0)$$

$$(0) \leq 2400 \Rightarrow X \leq (2400/3) \Rightarrow X \leq 800 \quad X \in [0 \quad 800]$$

$$(X, Y) \leq (800, 400)$$

$\Delta_1$

:  $\Delta_2$

:

$$(X = 0)$$

$$\Rightarrow Y \leq 1000 \quad Y \in [0 \quad 1000]$$

:

$$(Y = 0)$$

$$X + 0 \leq 1000 \Rightarrow X \leq (1000/2) \Rightarrow X \leq 500 \quad X \in [0 \quad 500]$$

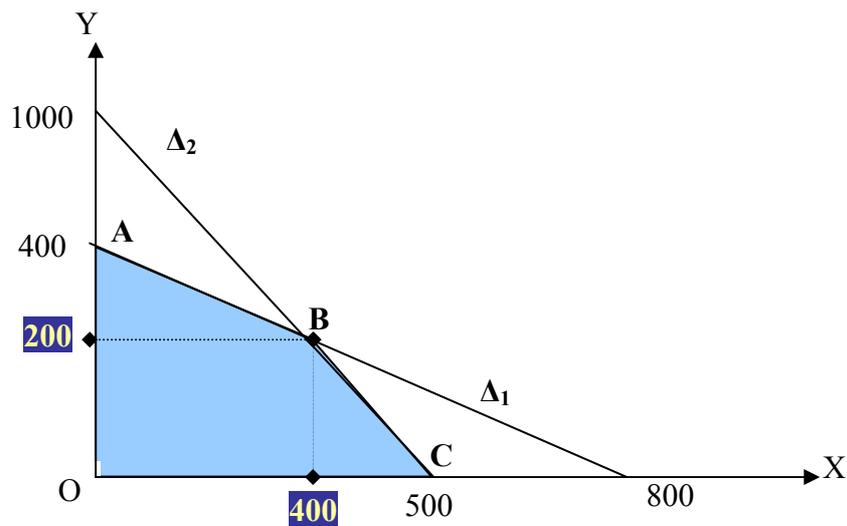
$$(X, Y) \leq (500, 1000)$$

$\Delta_2$

:

(2) (1)

Y = 0	X = 0	القيود
X ≤ 800	Y ≤ 400	3X + 6Y ≤ 2400
X ≤ 500	Y ≤ 1000	2X + Y ≤ 1000
<b>X* ≤ 500</b>	<b>Y* ≤ 400</b>	<b>الحلول المشتركة</b>



(C,B,A,O)

$$Y = 400 \quad X = 0 \quad (A) \quad - 1$$

$$Z = 20(0) + 30(400) = 12000$$

:

$$3(0) + 6(400) = 2400$$

:

$$2(0) + 1(400) = 400$$

:

400

600

:  $Y = 200 \quad X = 400 \quad \text{(B)} \quad - 2$

$Z = 20(400) + 30(200) = 14000$

$3(400) + 6(200) = 2400$

$2(400) + 1(200) = 1000$

:  $Y = 0 \quad X = 500 \quad \text{(C)} \quad - 3$

$Z = 20(500) + 30(0) = 10000$

(  $900 \quad ) \quad 3(500) + 6(0) = 1500$

.(  $\quad ) \quad 2(500) + 1(0) = 1000$

:  $Y = 0 \quad X = 0 \quad \text{(O)} \quad - 4$

$Z = 20(0) + 30(0) = 0$

$3(0) + 6(0) = 0$

$2(0) + 1(0) = 0$

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12000	400	2400	Y= 400 X= 0 (A)
14000	1000	2400	Y= 200 X= 400 (B)
10000	1000	1500	Y= 0 X= 500 (C)
00	1000	2400	Y= 0 X= 0 (O)

**B(400,200)**

C,B,A,O

(B)

200 (A)

400

14000