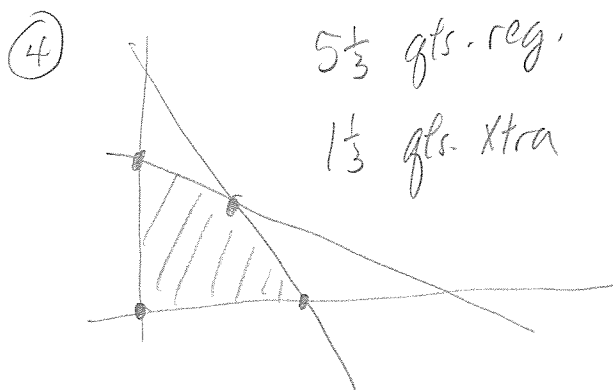
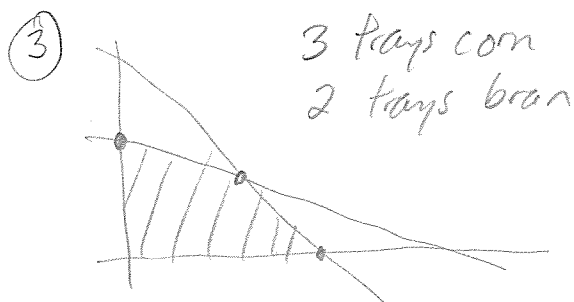
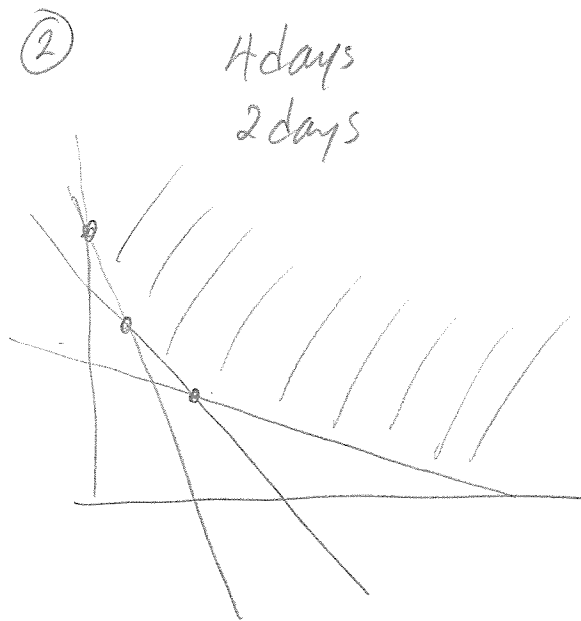
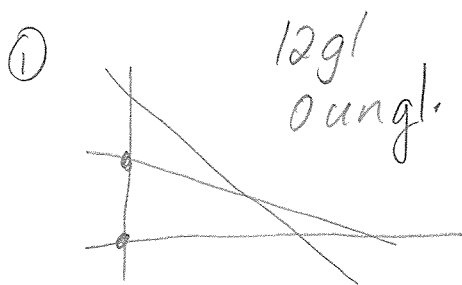


Linear Programming - One last time KEY



Linear Programming - One Last Time

① Let $x = \#$ glazed planters
 $y = \#$ unglazed planters

$$\frac{1}{2}x + y \leq 6 \rightarrow (0, 6) \quad (12, 0)$$

$$x + 6y \leq 24 \rightarrow (0, 4) \quad (24, 0)$$

$$1.50x + y = P$$

Vertices	Profit	$1.50x + y = P$
(0, 4)	4	
(6, 3)	12	
\rightarrow (12, 0)	18	

$$x + 2y = 12$$

$$x + 6y = 24$$

$$-4y = -12$$

$$y = 3$$

$$x + 6 = 12$$

$$x = 6$$

Answer:

12 glazed and zero unglazed with a profit of \$18

Glazed and unglazed planters

(y)
unglazed

24

20

10

6

4

2

2

4

6

8

10

12

20

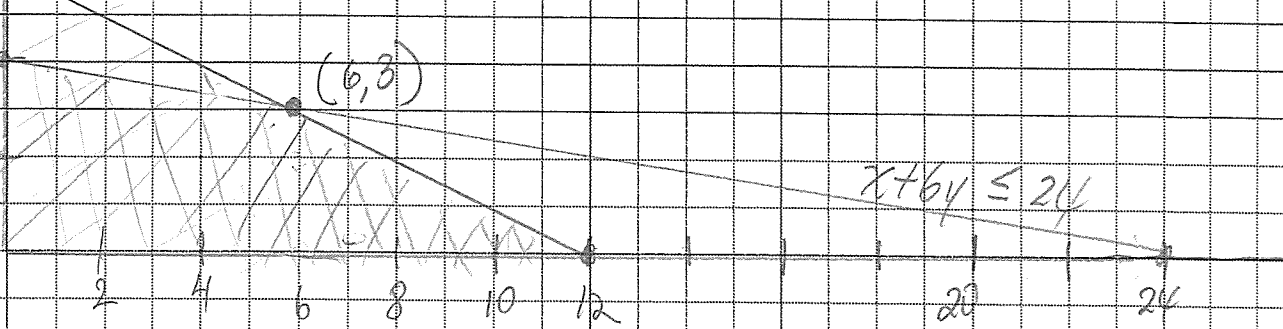
24

(x)

glazed

(6,3)

$$x + 6y \leq 24$$



② Ark Pharmaceutical Corp.

Let $x = \#$ of days at Plant I
 $y = \#$ of " " " II.

	I	II
Molar	$5x$	y
Nu-tral	x	y
Quoral	x	$4y$

$$5x + y \geq 10 \rightarrow (0, 10) (2, 0)$$

$$x + y \geq 6$$

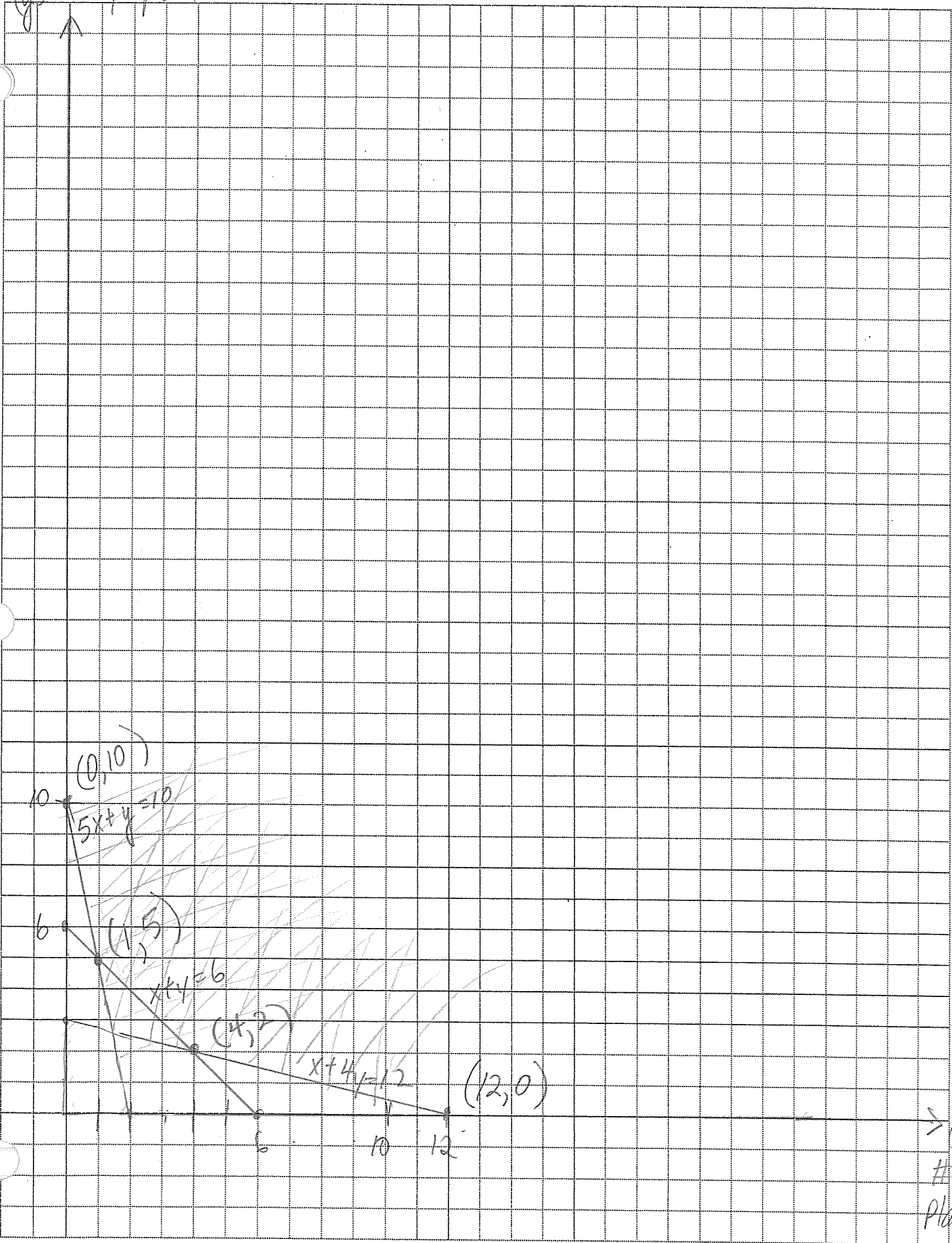
$$x + 4y \geq 12$$

$$10,000x + 20,000y = C$$

Vertices	Cost
$(0, 10)$	\$200,000
$(1, 5)$	\$110,000
$(4, 2)$	\$80,000 ←
$(12, 0)$	120,000

ARPCO should run Plant I 4 days and Plant II 2 days.
 The cost will be \$80,000.

(y) # days plant II



(x)
day
Plant I