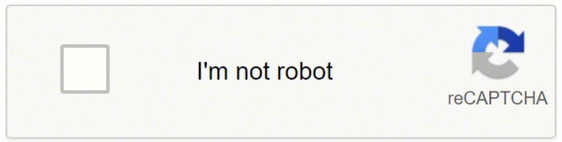


Open

Algebra awesomeness answers linear programming word problems

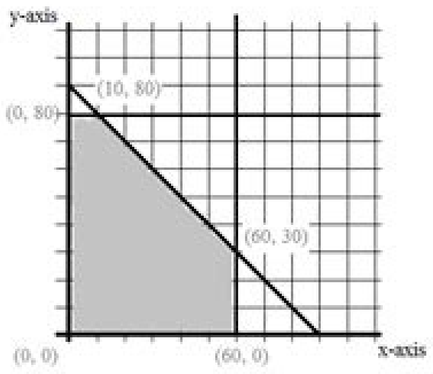
at $x=0$,
$15(0)+12y=90$
$12y=90$
$y=\frac{90}{12}=\frac{15}{2}=7.5$
$(0,7.5)$

II. Finding the optimization points

Example: Objective function: $.5x + .2y = P$

Constraints: $x + y \le 90$
$x \le 60$
$y \le 80$
$x \ge 0$
$y \ge 0$

What combination of x and y -- subject to the constraints -- would maximize P?



Test each corner point in the objective function:

(0, 0) : $.5(0) + .2(0) = 0$

(0, 80) : $.5(0) + .2(80) = 16$

(10, 80) : $.5(10) + .2(80) = 21$

(60, 30) : $.5(60) + .2(30) = 36$

(60, 0) : $.5(60) + .2(0) = 30$

Example: Objective function: $40A + 25B = C$

Constraints: $A \ge 10$
$B \ge A + 5$
$-A + 5B \le 175$

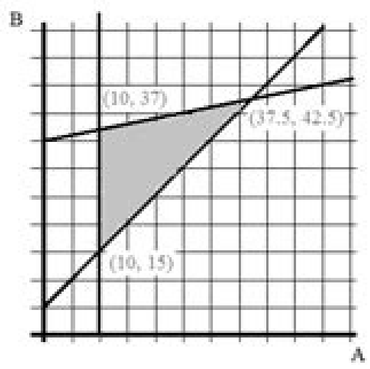
What is the minimum cost *subject to the constraints?*

Find corner points:

$A = 10$
$B = A + 5$
(10, 15)

$A = 10$
$-A + 5B = 175$
$-10 + 5B = 175$
$5B = 185$
(10, 37)

$B = A + 5$
$-A + 5B = 175$
(use substitution)
$-A + 5(A + 5) = 175$
$4A = 150$
$A = 37.5$
$B = 42.5$
(37.5, 42.5)



Test each corner point:

(10, 15) : $40(10) + 25(15) = 775$

(10, 37) : $40(10) + 25(37) = 1325$

(37.5, 42.5) : $40(37.5) + 25(42.5) = 2562.5$

writing inequalities.docx

c.)What concept or idea restricts you being able to buy EVERYTHING!?!!? (these create the constraints)

$ 200 # purchased 6

d.)Use the answer from (c.) to write 2 constraints (inequalities) that represent the restrictions you have on your purchase.

x = # of jeans 25 $x + y \le 6$
y = # of dresses $25x + 50y \le 200$

e.)There are two 'unwritten' restrictions that exist when we're working with money and product amounts, etc. Write these two restrictions.

$x \ge 0$
$y \ge 0$

Exercise 5: Solving Linear Programming Problems

1. A pet-store farmer has turtles and rabbits. He has room for only 100 pets. He can sell turtles for $15 each and rabbits for $30 each. He decides that he must earn at least $1500 to make the job worthwhile.
   a) Write the inequality that represents the total number of pets.
   b) Write the inequality that represents the total profit.
   c) Graph these inequalities.
   d) What are some possible solutions for the farmer?

I (Defining variables) { Let x = # of turtles to form
Let y = # of rabbits to form

I (a & b) i_1: $x + y \le 100$
i_2: $10x + 30y \ge 1500$

I "the math"
↳ use graphmatica, fluid
; "zone of feasibility"
; "critical points" (TEST 'EM)

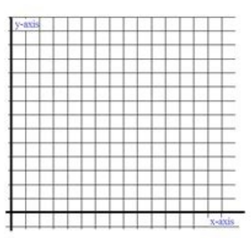
C) A furniture store makes two types of chairs: rockers and swivels. Machines A an B are required to make each type of chair. Machine A can be run no longer than 20 hours in a day. Machine B is limited to 15 hours per day.
The following Table shows the time needed to produce each chair and the profit.

Chair	Machine A	Machine B	Profit
Rocker	2 hours	3 hours	$12
Swivel	4 hours	1 hour	$10

How many of each chair should be made each day to maximize profits?

D) Given the following constraints, determine the maximum and minimum values of $Z = .2x - 3.3y$

$x \ge 0 \quad y \ge 2$
$y \le 3x + 4$
$x + 2y \le 15$
$x - \frac{1}{3}y \le 5$



The shaded areas will be where the equation Ã¢ÂÂworksÃ¢ÂÂ; in other words, where the solutions are.When we have Ã¢ÂÂ\(y3\)Since weÃ¢ÂÂre graphing a vertical line Dado que tenemos la desigualdad Ã¢(y

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