

Acc GPS AA / Geometry Linear Programming Worksheet

Name: SOLUTIONS Pd: _____

For each problem:

- Identify the functions to be maximized or minimized
- Define your variables
- Write an objective function statement using your variables
- Write a system of linear inequalities that represent the constraints
- Graph the feasibility region
- Using the vertices from your graph, determine the max/min value and answer the question

1. A carpenter makes bookcases in 2 sizes, large and small. It takes 4 hours to make a large bookcase and 2 hours to make a small one. The profit on a large bookcase is \$35 and on a small bookcase is \$20. The carpenter can spend only 32 hours per week making bookcases and must make at least 2 of the large and at least 4 of the small each week. How many small and large bookcases should the carpenter make to maximize his profit? What is his profit? $x = \text{small}$ $y = \text{large}$

$$P = 20x + 35y \quad \text{Objective}$$

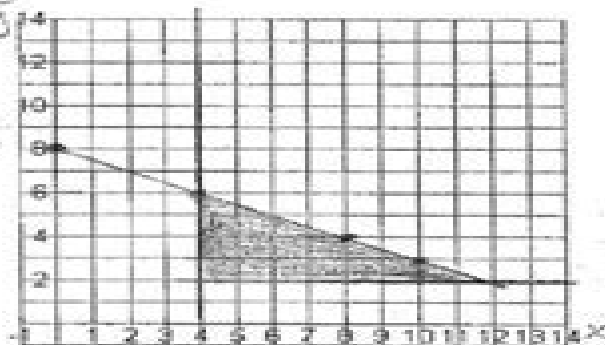
$$\begin{cases} x \geq 4, y \geq 2 \\ 2x + 4y \leq 32 \quad \text{hours} \end{cases}$$

$$(4, 2) \quad 20(4) + 35(2) = 150$$

$$(4, 6) \quad 20(4) + 35(6) = 290$$

$$(12, 2) \quad 20(12) + 35(2) = 310$$

Profit is maximized at \$310 when he makes 12 small + 2 large book cases.



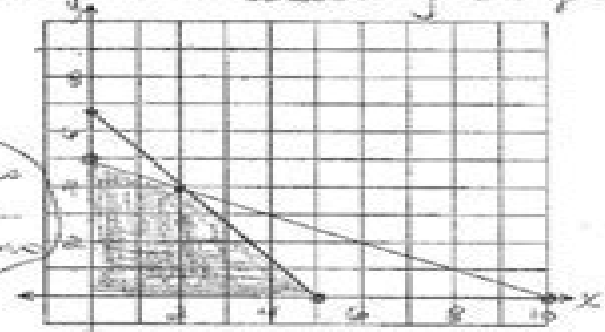
2. A small town is trying to establish a transportation system of large and small vans. It can spend no more than \$100,000 for purchasing both sizes of vehicles and no more than \$500 per month for maintenance. The town can purchase a small van for \$10,000 and maintain it for \$100 per month. The large vans cost \$20,000 each and can be maintained for \$75 per month. Each large van carries a maximum of 15 passengers and each small van carries a maximum of 7 passengers. Find the maximum number of passengers the transportation system can handle given the constraints. How many large and small vans will they need to maximize the number of passengers it can service? $x = \text{small}$ $y = \text{large}$

$$P = 7x + 15y \quad \text{Objective}$$

$$\begin{cases} 10,000x + 20,000y \leq 100,000 \\ 100x + 75y \leq 500 \\ x \geq 0, y \geq 0 \end{cases}$$

$$\begin{aligned} (0, 0) &\Rightarrow 0 \text{ passengers} \\ (0, 5) &\Rightarrow 7(0) + 15(5) = 75 \\ (2, 4) &\Rightarrow 7(2) + 15(4) = 74 \\ (5, 0) &\Rightarrow 7(5) + 15(0) = 35 \end{aligned}$$

They will maximize the number of passengers at 75 when they purchase 10 small vans + 5 large vans



Springboard Algebra 2 Answer Key Linear Programming

J Ma



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