

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? $x = \text{small}$ $y = \text{large}$

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

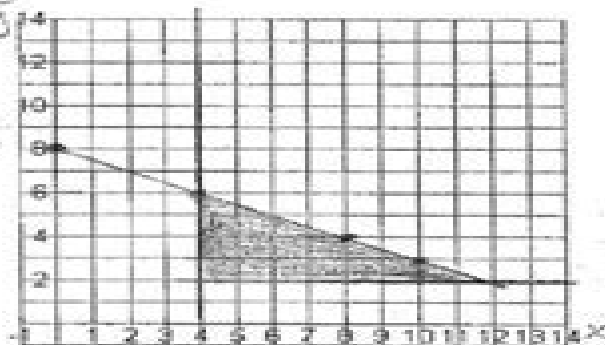
$$\begin{cases} x \geq 4, y \geq 2 \\ 2x + 4y \leq 32 \quad \text{hours} \end{cases}$$

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

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

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

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



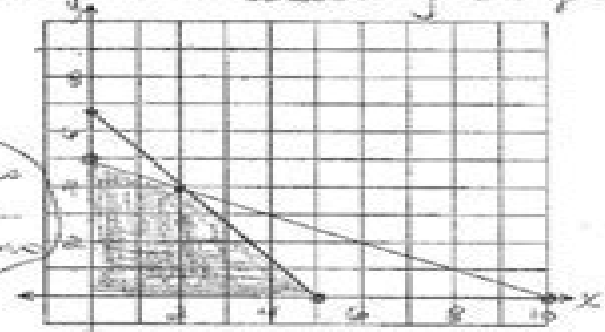
2. A small town is trying to establish a transportation system of large and small vans. It can spend no more than \$100,000 for purchasing both sizes of vehicles and no more than \$500 per month for maintenance. The town can purchase a small van for \$10,000 and maintain it for \$100 per month. The large 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



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Which Degree Guide ,2001 *Modeling Life* Alan Garfinkel, Jane Shevtsov, Yina Guo, 2017-09-06 This book develops the mathematical tools essential for students in the life sciences to describe interacting systems and predict their behavior From predator prey populations in an ecosystem to hormone regulation within the body the natural world abounds in dynamical systems that affect us profoundly Complex feedback relations and counter intuitive responses are common in nature this book develops the quantitative skills needed to explore these interactions Differential equations are the natural mathematical tool for quantifying change and are the driving force throughout this book The use of Euler's method makes nonlinear examples tractable and accessible to a broad spectrum of early stage undergraduates thus providing a practical alternative to the procedural approach of a traditional Calculus curriculum Tools are developed within numerous relevant examples with an emphasis on the construction evaluation and interpretation of mathematical models throughout Encountering these concepts in context students learn not only quantitative techniques but how to bridge between biological and mathematical ways of thinking Examples range broadly exploring the dynamics of neurons and the immune system through to population dynamics and the Google PageRank algorithm Each scenario relies only on an interest in the natural world no biological expertise is assumed of student or instructor Building on a single prerequisite of Precalculus the book suits a two quarter sequence for first or second year undergraduates and meets the mathematical requirements of medical school entry The later material provides opportunities for more advanced students in both mathematics and life sciences to revisit theoretical knowledge in a rich real world framework In all cases the focus is clear how does the math help us understand the science **Energy**

Research Abstracts ,1983 **Eclipsing Binary Stars** Josef Kallrath, Eugene F. Milone, 2013-11-11 Have you ever stopped at a construction project on the way to your office and the day's astrophysics Remember the other onlookers folks just enjoying the spectacle as we all do in following developments away from our areas of active work We are excited and thrilled when the Hubble Space Telescope discovers an Einstein Cross when the marvelous pulsars enter our lives and when computer scientists put a little box on our desk that outperforms yesterday's giant machines We are free to make use of such achievements and we respect the imagination and discipline needed to bring them about just as onlookers respect the

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web a muscle organ is a complete muscle system with skeletal smooth and cardiac muscle whereas a muscle fiber or myocytes is a muscle cell which is made of myofibrils myofibril which are formed within muscle fibers made of actin thin light and myosin thick dark these myofibrils are organized into thick dark and thin light filaments

the muscular system pearson - May 12 2023

web muscular system to get to the vehicle although the skeletal system provides the framework for the human body the body also needs a system that allows move ment or locomotion which is the job of the muscular system the movement we are most familiar with is the use of our external muscles to walk run or lift objects