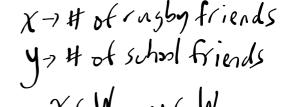
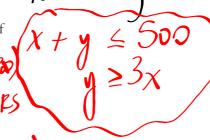
HOMEWORK QUESTIONS???

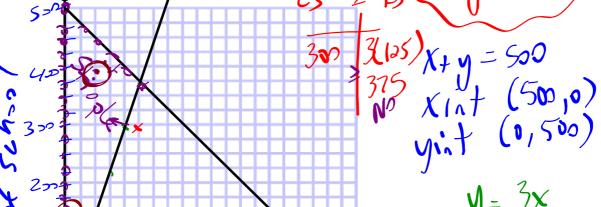
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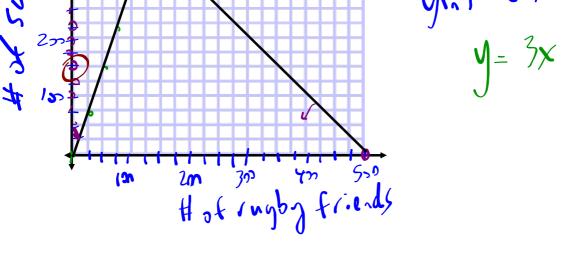
NOTE: Each question requires a graph to get possible solutions!

- **8.** Trish is setting up her social networking page:
 - She wants to have no more than 500 friends on her new social networking page.
 - X She also wants to have at least three school friends for every rugby friend.
 - a) Define the variables and write a system of inequalities that models this situation.
 - **b)** Describe the restrictions on the domain and range of the variables.
 - c) Graph the solution set to determine two possible combinations of school friends and rugby friends she could have.



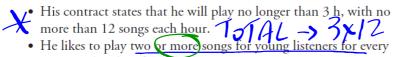




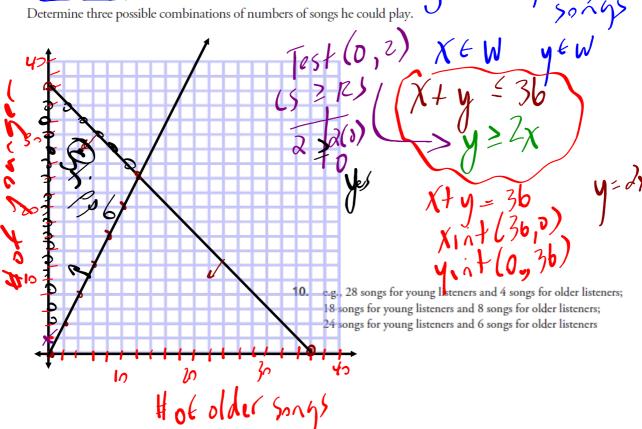


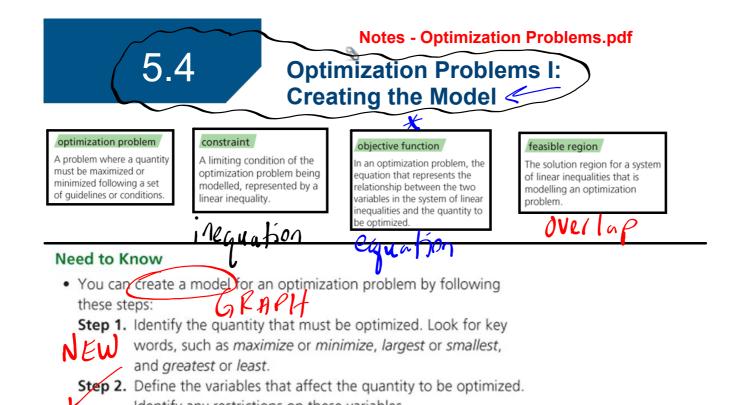
X># of older

10. Spence, a disc jockey, is often hired to play weddings.



one song he plays for older listeners.





Step 3. Write a system of linear inequalities to describe all the constraints of the problem. Graph the system.

Step 4. Write an objective function to represent the relationship between the variables and the quantity to be optimized.

QUIZ

Notes - Optimization Problems.pdf