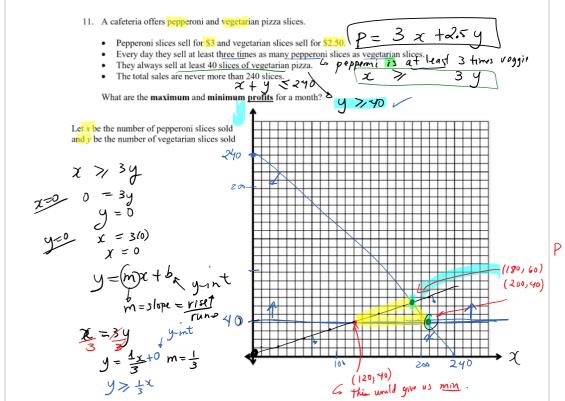
- 10. A butcher shop makes hamburger patties and sausages.
 - Hamburger patties sell for \$2 and sausage sell for \$1.50.
 - The butcher noticed that they always sell at least twice as many sausages as hamburger patties
 - The butcher never sells more than 100 hamburger patties or 300 sausages.

Let *h* represent the number of hamburger patties sold. Let *s* represent the number of sausages sold.

- a) Write a system of linear inequalities to describe the constraints.
- b) Write an objective function that represents the profit made from the sale of hamburger patties and sausages.



P = 3x + 2.7y= 3(140) + 2.5(60) = \$690 = 3(200) + 2.5(40) = \$700