Week 1 Assignment 1

1. Solve the following problem: The cost of the telephone service is $5 per week plus $0.05 per minute. If the customer uses 100 minutes of service in a week, what is the total cost of the service for that week?

2. A company produces two types of products, A and B. The profit per unit for product A is $3 and for product B is $5. The company has 100 hours of labor available and 150 units of material available. Each unit of product A requires 2 hours of labor and 3 units of material, while each unit of product B requires 4 hours of labor and 2 units of material. How many units of each product should the company produce to maximize profit?