Chapter 21 & 13 Practice Problems

Elements of Microeconomics (discussion section 4)

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Question 1

A consumer would like to purchase pasta and wine. They have \$100 to spend, pasta costs \$20 per plate and wine costs \$10 per glass.

- 1. How much of each good could they possibly consume?
- 2. What is the equation for their budget constraint?
- 3. What does their budget constraint look like graphically?
- 4. What happens if the price of pasta decreases to \$10?
- 5. What happens if instead, income increases to \$160?

Question 2

Using the set up from question 1:

- 1. Draw the indifference curve which represents the maximum satisfaction the consumer could possibly have given their initial budget constraint.
- 2. Now consider the increase in income to \$160. Draw the new indifference curve which represents the maximum satisfaction the consumer could possibly have given this budget constraint.
- 3. Now consider the decrease in price of pasta to \$10. Draw the new indifference curve which represents the maximum satisfaction the consumer could possibly have given this budget constraint AND illustrate the income and substitution effects as a result of the change.

Question 3

Consider a firm which produces pizzas. The following table shows the number of pizzas produced given varying numbers of workers:

Workers	Output
0	0
1	20
2	45
3	80
4	100
5	110

A worker costs \$100 and the firm has fixed costs of \$200. Add columns for the marginal product, total cost, average total cost, and marginal cost and fill them in.