Assignment: Applied Economics

Question 1:

Using the expenditure and income methods, calculate the GDP, GNP, and NNP at market price of a country using the following data:

• Consumption expenditure: \$300 billion

• Investment expenditure: \$200 billion

• Government expenditure: \$150 billion

• Exports: \$100 billion

• Imports: \$50 billion

• Net factor income from abroad: \$20 billion

• Depreciation: \$30 billion

Indirect taxes: \$40 billion

• Subsidies: \$10 billion

• Compensation of employees: \$400 billion

• Operating surplus: \$200 billion

• Rental income: \$50 billion

• Interest income: \$30 billion

• Corporate profits: \$100 billion

• Net indirect taxes: \$20 billion

Question 2:

Using the expenditure and income methods, calculate the GDP, GNP, and NNP at market price of a country using the following data:

• Consumption expenditure: \$500 billion

• Investment expenditure: \$300 billion

• Government expenditure: \$200 billion

• Exports: \$150 billion

• Imports: \$100 billion

Net factor income from abroad: -\$50 billion

• Depreciation: \$40 billion

• Indirect taxes: \$30 billion

• Subsidies: \$20 billion

• Compensation of employees: \$600 billion

• Operating surplus: \$400 billion

• Rental income: \$80 billion

• Interest income: \$60 billion

• Corporate profits: \$200 billion

Net indirect taxes: \$40 billion

Question 3:

Using the expenditure and income methods, calculate the GDP, GNP, and NNP at market price of a country using the following data:

• Consumption expenditure: \$400 billion

• Investment expenditure: \$200 billion

• Government expenditure: \$300 billion

• Exports: \$100 billion

• Imports: \$50 billion

• Net factor income from abroad: \$50 billion

• Depreciation: \$30 billion

Indirect taxes: \$40 billion

• Subsidies: \$10 billion

• Compensation of employees: \$500 billion

• Operating surplus: \$400 billion

• Rental income: \$70 billion

• Interest income: \$40 billion

• Corporate profits: \$150 billion

• Net indirect taxes: \$30 billion

Ouestion 4:

A company sells a particular product with the following information:

• Original price: \$10 per unit

• New price: \$12 per unit

• Original quantity demanded: 1,000 units

• New quantity demanded: 800 units

- a) Calculate the price elasticity of demand using the point elasticity formula.
- b) Interpret the calculated price elasticity value and discuss the elasticity category (elastic, inelastic, or unitary elasticity) of the product.

Question 5:

A market analysis firm conducted a study on the demand for a specific good. The study collected the following data:

• Original price: \$5 per unit

• New price: \$6 per unit

• Original quantity demanded: 1,000 units

• New quantity demanded: 900 units

- a) Calculate the price elasticity of demand using the arc elasticity formula.
- b) Discuss the difference between using the point elasticity formula and the arc elasticity formula in this scenario.