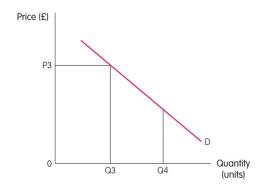
Chapter 3

Put into practice questions

Page 47

Consider the demand curve in Figure 3.2.



What quantity is demanded at price P3?
Answer Q3
What price is necessary for quantity Q4 to be demanded?
Lower price

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According to the law of diminishing marginal utility states that .

- a. As more variable factors are added to a fixed factor, the additional output produced will decline. FALSE
- b. As more of a product is consumed, the extra satisfaction will decline. TRUE
- c. As more of all factors are employed, the additional output produced will fall. FALSE
- d. The total satisfaction from consuming a product will be maximised when marginal utility is negative. FALSE

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If the equation for a demand curve is Q = 50 - 4P:

a. what is the quantity demanded if the price is £5? =50-20= 30 units

b. what is the quantity demanded if the price is £10? =50-40= 10 units

c. what is the price at which the quantity demanded is 46 units?

If
$$Q = 46$$
; $4P = 4$; $p = £1$

d. what is the price at which the quantity demanded is 42 units? If Q = 42; 4P = 8; p = £2

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If the equation for a demand curve is Q = 20 + 2P, why does this mean that the demand curve for this product is upward-sloping? Show your answer, using calculations to calculate the quantity demanded for different prices.

Demand is upward sloping; if price increases quantity demanded increases e.g. price = £1 Quantity demanded = 20+2=22 units if price = £2; Quantity demanded = 20 + 4 = 24 units

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What do you think are likely to be the major determinants of the demand for each of the following?

a. New cars: could be income, and population size

b. Textbooks : could be number of students

c. Diamonds: could be incomes and number of weddings

d. Healthcare: could be population size and age breakdown

e. Flat screen TVs: income

f. Eggs: population size; eating habits

Complete the table below showing the demand curves for the three firms in the market.?

Price	Quantity demanded from firm A units	demanded from	Quantity demanded from firm C units	Market demand (A + B + C) units
10	50	20	8	
8	60	35	23	
6	80	45	34	
4	100	56	45	

Price Market demand

10 78 8 118 6 159 4 201

End of chapter put into practice questions

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If the equation for the demand curve is Q = 300 - 2P what is the quantity demanded when the price is £10? £20?

Price £10; quantity demanded= 300-20=280 units Price = £20; quantity demand = 300-40=260 units

Show on a diagram the effect of a demand curve changing from Q = 200 - 4P to Q = 500 - 4P.

Demand shifts outwards

What happens to a demand curve if it changes from being Q = 600 - 3P to Q = 600 - 8P?

Demand shifts inwards

What does a demand curve look like if its equation is Q = 100 + 2P?

Upward sloping

The marginal utility for each additional unit of consumption is 12 units of utility then 10, 7, 5, 2, -2, -4. Plot the total utility derived from the consumption of these units.

Total utility will be: 12, 22,29,34,36

Complete the table below.

Unit	Total utility	Marginal utility
1	20	n/a
2	30	
3	55	
4	76	
5	97	

Marginal utility is: 10, 25, 21, 21.

Complete the table below showing the demand curves for the three firms in the market.

Price	Quantity demanded from firm A	Quantity demanded from firm B	Quantity demanded from firm C	Market demand (A + B + C)
	units	units	units	units
20	20	2	9	
18	30	5	23	
16	40	15	44	
14	70	16	55	

Total demand is: 31, 58, 99, 141.