

PROVINCE OF THE EASTERN CAPE ECONOMICS GRADE 12 2020 TOPIC: MONOPOLY COMPILED BY: S.S. DINGE

The dynamics of imperfect market

- Imperfect markets are characterised by imperfect competition
- One of the conditions of perfect competition is not satisfied
- Imperfect markets include:
 - Monopoly
 - Oligopoly
 - Monopolistic competition



Monopoly

- A market structure with only one producer and seller
 of a product or services
- There is usually no close substitute
- Many barriers to entry
- This lack of competitors results in 3 harmful things:
 - Less output is produced than in a competitive environment
 - The output is sold for more than the market price would be if the industry was competitive
 - Production is less efficient and costs more than in a competitive environment



Characteristics of monopoly

- There is no competition (one supplier/business)
- The products are unique with no close substitutes
- They are still faced by demand curves
 - But because they are the only supplier, they can decide where on the demand curve they want to be
- They have considerable control over the price
 - They can decide on production levels, increasing or decreasing prices accordingly
- They are exposed to market forces (consumers have limited budgets
 - Monopolies must still compete with all other products available in the economy



Characteristics of monopoly

- They can face substitutes
 - They are very few products that have absolutely no substitutes
 - E.g. although there is one supplier of electricity, you can still use gas to cook or generator to produce electricity
- They are likely to exploit the consumer, because they are the only supplier of a product
 - Most governments guard against this
- They are protected by barriers to entry;
 - Legal restriction
 - Through government acts, which grant exclusive rights e.g. post office



Characteristics of monopoly

- Patents
 - Are legal rights whereby the patent holder obtains exclusive rights to manufacture a product
 - High start-up or development cost
 - E.g. it costs a lot to build a power station or buy a fleet of airplanes (natural monopoly)
- Licensing
 - One can only operate if granted a license by government, e.g. telephone service providers & TV broadcasting
- Technical superiority
 - When a business' technical expertise vastly exceeds its competitors, it can dominate the market, e.g. microsoft



Cost and Revenue Curves

- NB: unlike the perfect competitor, the production of the monopolist makes up the total production for the market
 - The monopolist therefore faces a normal market demand curve (one which slopes downwards from left to right)







Revenue in a monopoly



The monopolist is a price-maker. The level of output is determined by the demand for the goods and /or service that the monopolist provides. In the case of a monopoly the demand curve is the firm's average revenue curve.

Total revenue is calculated using the following formulae:

Price x Quantity

In this case P1 x Q1. Please note that the elasticity for the demand curve for the monopolist changes depending upon the price at which and goods are sold - please see the adjacent diagram.



Economic Profit • Profit is maximised by expanding production line up to a point where SMC = MR (point A) At this point, quantity that should be produced to maximise profit is **Q**₁ The price at which the product will be sold should correspond with **point A (where price is P₁)** The cost will be determined at point B where production line cuts AC D = ARrevenue **Economic profit** The monopolist's SMC Price = average **Total Revenue**: $(TR) = Q_1 \times P_1$ SAC P_1 **Total Cost:** $(TC) = Q_1 \times AC \text{ (point B)}$ В From the graph: TR > TCthis means the MR monopolist has made an ECONOMIC Q_1 PROFIT FRN CAPF

Quantity

Economic Profit



Economic Loss Loss is minimised by expanding production line up to a point where **SMC = MR to point A**

- At this point, quantity that should be produced to minimise losses is **Q**₁
- The price at which the product will be sold should correspond with **point A (where price is P₁)**
- The cost will be determined at point B where production line touches SAC

revenue Price = average



Short term Losses

Economic loss can only be for a short time as monopolist as price setters will soon raise the price to cover losses.

In a short term Monopolists can have economic loss.





Monopoly vs Perfect market

- Monopoly
- Downward sloping Demand curve
- MR lies below demand curve
- Price setter
- Individual business is the industry(only firm) Products differentiated
- Can make economic profits even in the long-run

- Perfect market
 Horizontal Demand curve
- MR curve same as demand curve
- Price-taker
- Individual businesses (many) add up to make the industry. Product are homogenous Only normal profit in the long-run.



Summary

- 1. A monopolist is the sole producer in the industry.
- 2. The demand curve for the monopolist is a market demand curve.
- 3. The average revenue curve is the demand curve.
- Marginal revenue falls twice as steeply as the average revenue curve.
- 5. Profit is maximised where MC=MR on the demand curve.
- 6. The monopolist is likely to earn abnormal profit because average revenue will be above the average cost at equilibrium level of output.
- 7. The monopolist can practice price discrimination.



Study the graph below and answer the following homework questions





Homework

- 1.1 Identify the price charged by the above firm. (1)
- 1.2 Describe the nature of the product supplied. (1)
- 1.3 What determines the optimum production level in a monopoly market? (2)
- 1.4 Describe economic profit. (2)
- 1.5 Calculate the economic profit in the above scenario. Show calculations. (4)
- 2. Distinguish between artificial monopoly and natural monopoly. (8)
- 3. Explain why monopolist can make economic profit even in the long-run? (8)



HOMEWORK (Day 2)

• Essay – 40 marks

Discuss the characteristics of monopoly as a market structure. (26)

Compare and contrast the long run position of a perfect market and that of an monopoly. (10)







