

Edexcel Economics AS-level
Unit 3: Business Behaviour

Topic 2: Revenue, Costs and
Profit

2.1 Revenue

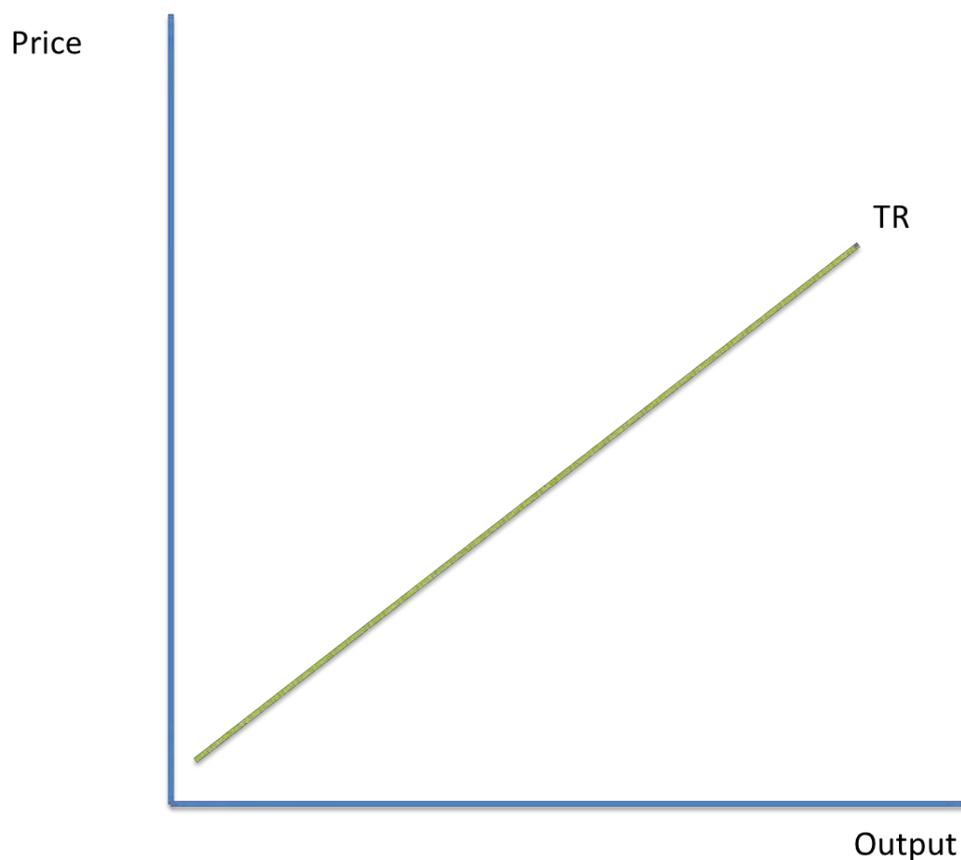
Notes



Formulae to calculate types of revenue

Total revenue:

-  Total revenue is calculated by **price x quantity sold**. It is the revenue received from the sale of a given level of output.



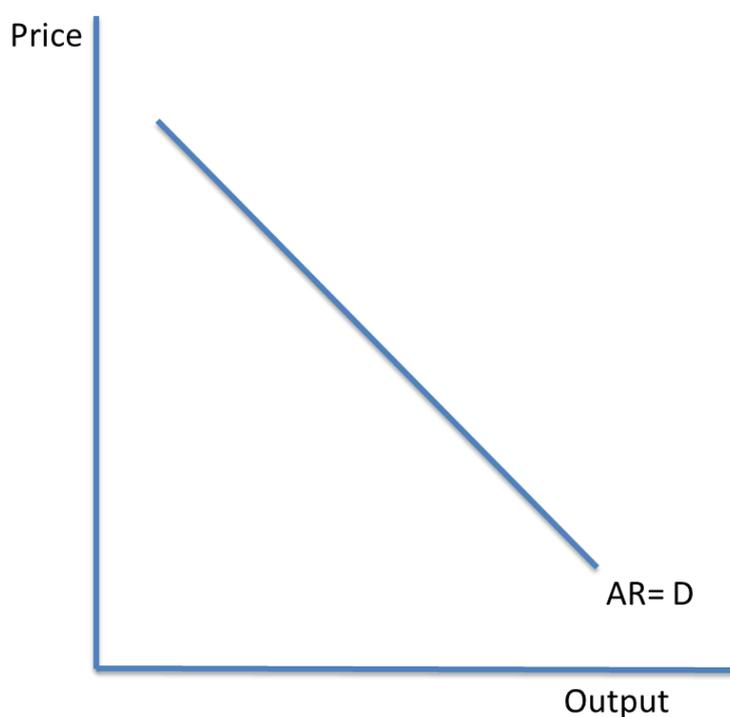
-  When price is constant, TR is as shown in the diagram. Prices are lowered to achieve higher sales.

Average revenue:

-  Average revenue (AR) is the average receipt per unit. This is calculated by **TR / quantity sold**. In other words, this is the price each unit is sold for.



-  The AR curve is the firm's demand curve. This is because the average revenue curve is the price of the good.
-  In markets where firms are **price takers**, the AR curve is horizontal. This shows the perfectly elastic demand for their goods.



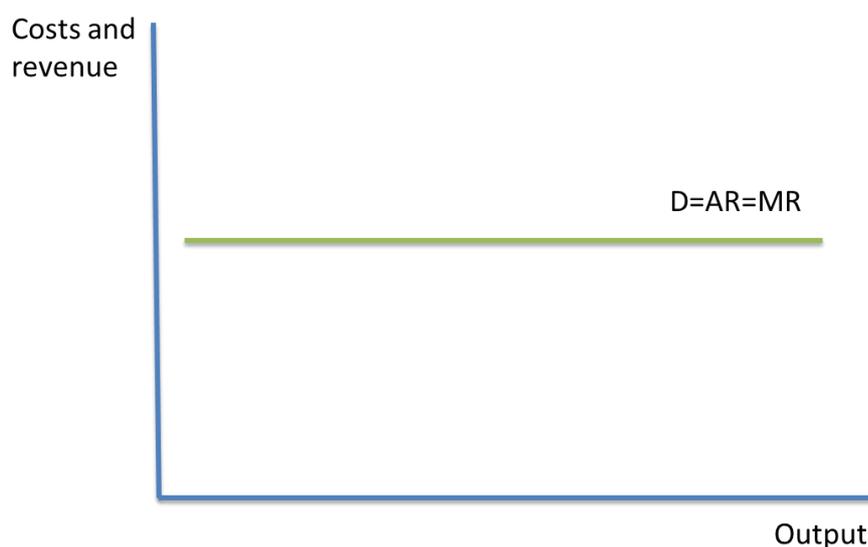
Marginal revenue:

-  This is the extra revenue a firm earns from the sale of one extra unit. When marginal revenue is 0, total revenue is maximised.
-  The point where $MR = 0$ on the revenue diagram is directly below the midpoint of the AR curve. This is in the middle of the demand curve and it is the point where $PED = 1$.
-  If prices rise or fall around this point, TR would fall.



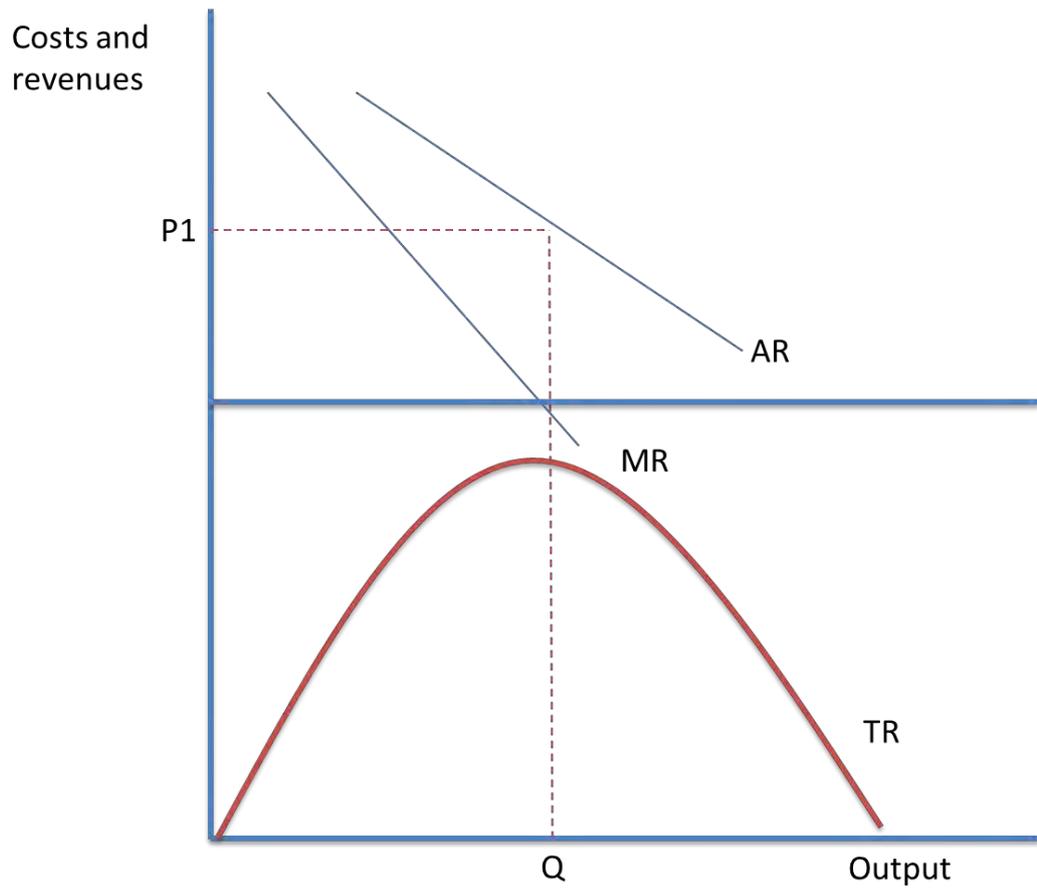
PED and its relationship to revenue concepts:

-  In markets where firms are **price takers**, the AR curve is horizontal. This is because the price received for the good is constant. This shows the perfectly elastic demand for their goods. AR= the demand curve, because AR is the price of the good, and the demand curve shows the relationship between price and quantity. Average revenue = marginal revenue.



-  If demand is elastic and price increases, the quantity demanded will fall. The effect on total revenue depends on how elastic the demand is.
-  For example, if price rises by 10% and demand decreases by 20%, then the elasticity of demand is +2. This means demand is very elastic and total revenue decreases.
-  If prices rise by 10% and demand decreases by 1%, the price elasticity of demand is +0.1. Demand is relatively inelastic, and revenue increases.
-  Usually, the AR curve is downward sloping, because the price per unit is reduced as extra units are sold.





-  The MR curve is twice as steep as the AR curve. This does not have to be proven in the exam. The AR curve is a trend line.

