



## 2026 Level 1 - Economics

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## **The Firm and Market Structures**

- a. determine and interpret breakeven and shutdown points of production, as well as how economies and diseconomies of scale affect costs under perfect and imperfect competition
- b. describe characteristics of perfect competition, monopolistic competition, oligopoly, and pure monopoly
- c. explain supply and demand relationships under monopolistic competition, including the optimal price and output for firms as well as pricing strategy
- d. explain supply and demand relationships under oligopoly, including the optimal price and output for firms as well as pricing strategy
- e. identify the type of market structure within which a firm operates and describe the use and limitations of concentration measures

## Profit

- Objective of the firm - maximize profit

$$\pi = TR - TC$$

$\swarrow$   $\searrow$   
 $P \times Q$       economic  
    accounting

Page 1

LOS a

- calculate
- interpret
- compare

• accounting profit  $\Rightarrow$  TR - accounting costs (explicit costs)

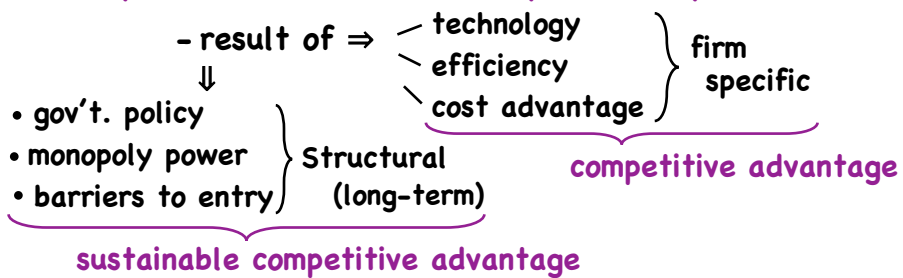
- includes interest exp.

• economic profit  $\Rightarrow$  accounting profit - total implicit opportunity costs

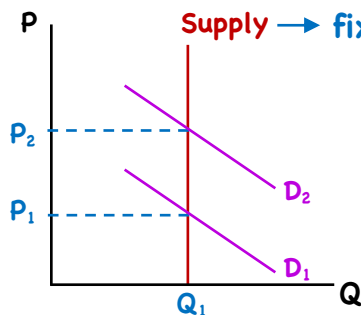
required rate of return on equity

• normal profit: economic profit = 0

- economic profit > 0  $\Rightarrow$  abnormal/supernormal profit



• Economic Rent/



Supply  $\rightarrow$  fixed in short-run (inelastic supply)

$\therefore$  demand determines price

• at  $P_1 \Rightarrow$  normal profit

- demand increases to  $D_2$ , Price to  $P_2$

• at  $P_2 \Rightarrow$  economic rent =  $(P_2 - P_1) \times Q_1$

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LOS a

- calculate
- interpret
- compare

- any commodity, resource or good that is fixed/nearly-fixed in supply has the potential to generate economic rent

- the more inelastic supply is, the higher the potential

- Effect on Equity Value:

> 0      positive effect

economic profit = 0      no effect

< 0      negative effect

## Revenue

	<b>Total</b>	<b>Average</b>	<b>Marginal</b>	
<b>Revenue:</b>	$P \times Q$ (TR)	$\frac{P \times Q}{Q}$ (AR)	$\frac{\Delta(P \times Q)}{\Delta Q}$ (MR)	Page 3 LOS b - calculate - interpret - compare

① **Perfect Competition/** • firms are price takers, all face horizontal demand curves

② **Imperfect Competition/** • individual firms can influence price  
 • smaller number of firms in market (only one = monopoly)  
 • firms face downward sloping demand curves

**2. Imperfect Competition/**

- curve has a decreasing slope throughout ⇒ implies that ΔTR at each successive increment of Q is getting smaller
- AR > MR at all points

Page 4  
 LOS b  
 - calculate  
 - interpret  
 - compare

### Costs

<b>Fixed (explicit + implicit)</b>	<b>Total</b> TFC	<b>Average</b> $TFC/Q$ (AFC)	<b>Marginal</b>
<b>Variable</b>	$VC/v \times Q$ (TVC)	$TVC/Q$ (AVC)	
<b>Total Costs</b>	$TFC + TVC$ (TC)	$\frac{TC}{Q}$ (ATC) or AFC + AVC	$\frac{\Delta TC}{\Delta Q}$ (MC)

Cost vs Q graph showing TC, TVC, and TFC curves.

Cost/unit (short-run) vs Q graph showing ATC, AVC, and AFC curves.

$Q_{AVC}$  - AVC is at a minimum, but since AFC will continue to decline,

$Q_{ATC}$  - represents total minimum cost point (i.e. min. cost/unit)

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LOS d

- calculate
- interpret

### Breakeven & Shutdown Points

Cost/u and Rev./u vs Q graph showing MC, ATC, and AVC curves.

• Perfect Comp. - short-run

- if AVC are decreasing,  $MC < AVC$
- if AVC are increasing,  $MC > AVC$
- MC intersects both AVC & ATC at their minimums

Point S - shutdown point ( $AR < AVC$ )  
- below S, actg. profit  $< 0$

S - T: actg. profit  $< RRR$

Point T - economic BEP ( $P = AR = MR = TR = TC = ATC$ )  
-  $ROE = RRR$   
-  $ATC = MR = AR = P$   
- above T: actg. profit  $> RRR$

- at  $P_1$  - firm is not covering variable cost/unit
- at  $P_2$  - VC/unit covered but TC/unit is not
- at  $P_3$  - all costs covered

	short-run	long-run
Below S	shutdown	leave
S - T	produce	leave
Above T	produce	stay

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LOS e

- determine
- describe

## Economies/Diseconomies of Scale

Page 10  
LOS g  
- describe

**Define: short-run** - at least one of the factors of production are fixed

- technology
- plant size

**long-run** - all are variable

- gives rise to ① short-run ATC  
② long-run ATC

Recall: Perfect Competition

- firm is a price taker
- at  $P_1$ , firms must produce at  $SRATC_4$  or exit

minimum efficient scale

Page 11  
LOS g  
- describe

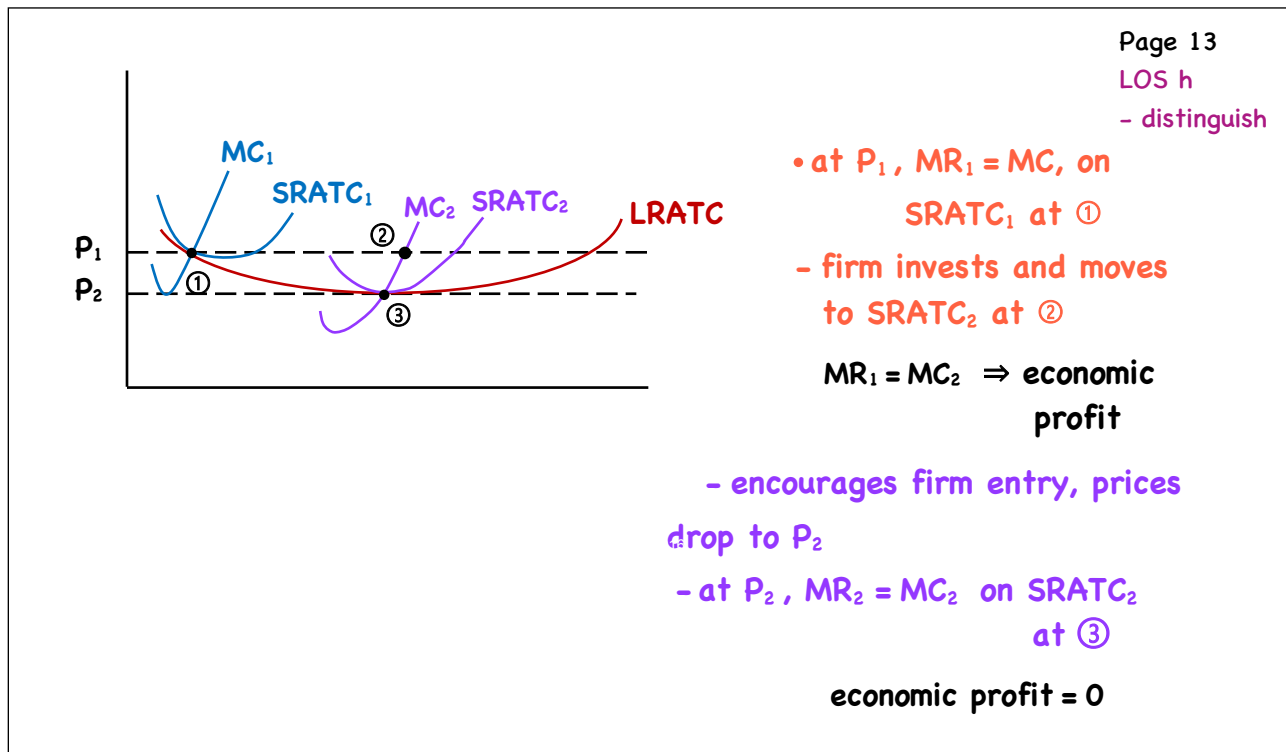
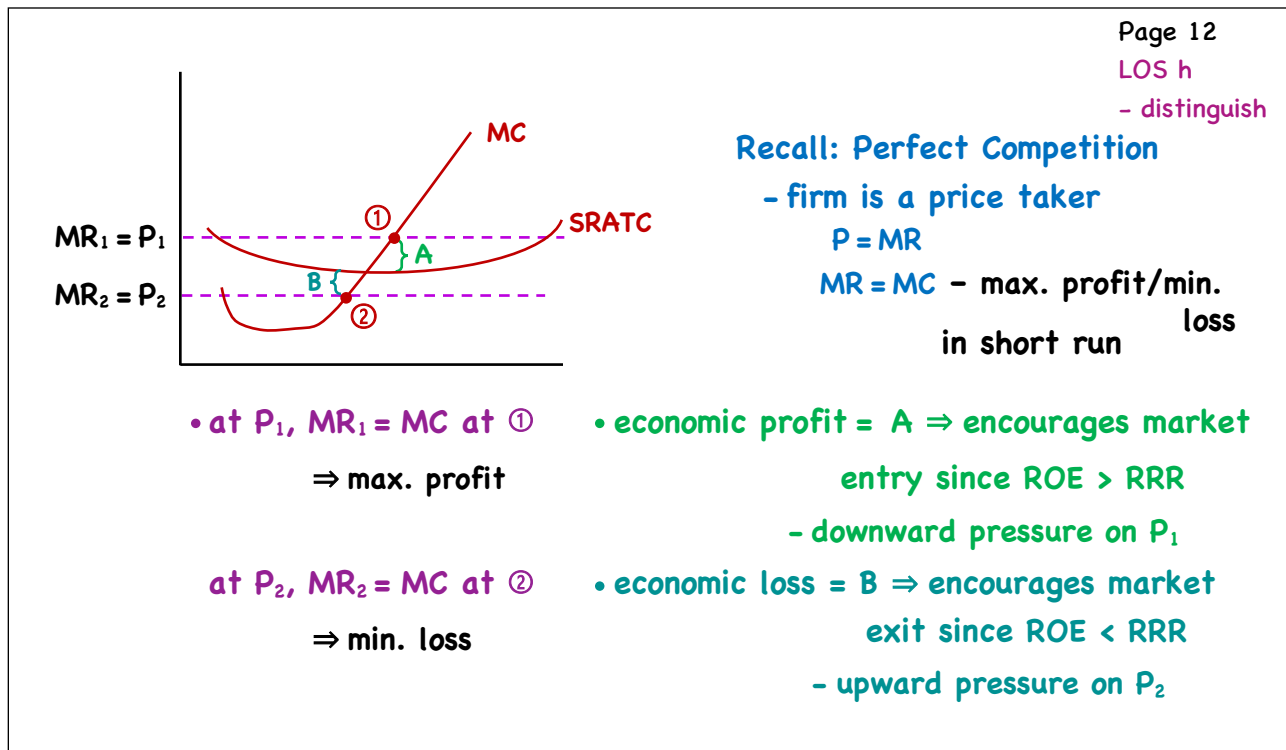
- **economies of scale**
  - division of labour/mgmt.
    - specialization
  - productivity enhancing equipment/technology
  - efficiency gains
    - waste reduction
    - energy reduction
  - superior market insight
  - volume discounts
- **diseconomies of scale**
  - poor mgmt. control/oversight
  - overlap/duplication
  - greater stress on local supply markets
  - big target
    - unions
    - antitrust legislation
    - litigation

- rapid economies  
- rapid diseconomies

- consistent economies

- constant returns to scale

### Short/Long Run Profit Max.



## Market Structure

- factors that determine market structure	Perfect Competition	Monopolistic Competition	Oligopoly	Monopoly
① number and relative size of firms	many	many	few	one
② degree of product differentiation	<ul style="list-style-type: none"> <li>• homogeneous</li> <li>• standardized</li> </ul>	<ul style="list-style-type: none"> <li>• differentiated</li> </ul>	<ul style="list-style-type: none"> <li>• homogeneous</li> <li>• standardized</li> </ul>	<ul style="list-style-type: none"> <li>• unique</li> </ul>
③ seller power over pricing decisions	<ul style="list-style-type: none"> <li>• none</li> </ul>	<ul style="list-style-type: none"> <li>• some</li> </ul>	<ul style="list-style-type: none"> <li>• some or considerable</li> </ul>	<ul style="list-style-type: none"> <li>• considerable</li> </ul>
④ Barriers to entry/exit	<ul style="list-style-type: none"> <li>• very low</li> </ul>	<ul style="list-style-type: none"> <li>• low</li> </ul>	<ul style="list-style-type: none"> <li>• high</li> </ul>	<ul style="list-style-type: none"> <li>• very high</li> </ul>
⑤ Degree of non-price competition	<ul style="list-style-type: none"> <li>• none</li> </ul>	<ul style="list-style-type: none"> <li>• Advertising/ Product Differentiation</li> </ul>	<ul style="list-style-type: none"> <li>Advertising/ Product Differentiation</li> </ul>	<ul style="list-style-type: none"> <li>• Advertising</li> </ul>

Page 1  
LOS a  
- describe

### Perfect Competition

• Demand Analysis

- price taker
- prices are industry determined

• differentiated product + non-price competition = some pricing power

### Monopolistic Competition

- downward sloping demand curve since prices are firm determined

Page 2  
LOS b-f  
- explain

**Proof:**  $Q = a - bP$

$$P = \frac{a}{b} - \frac{Q}{b}$$

$m = -1/b$

$$TR = P \times Q$$

$$= \left(\frac{a}{b} - \frac{Q}{b}\right) Q$$

$$= \frac{a}{b} \cdot Q - \frac{Q^2}{b}$$

$$MR = \frac{dTR}{dQ} = \frac{a}{b} - \frac{2Q}{b}$$

$m = -2/b$

$\therefore$  Slope of MR curve  
= 2  $\times$  slope of the demand curve

Page 3  
LOS b-f  
- describe

### Perfect Competition

cost/unit

P

economic BEP

shut down point

MC

ATC

AVC

Q

ROE > RRR

### Supply Analysis

- differentiated product + non-price competition = some pricing power

- level of output is determined by the MC schedule (MR = MC)

### Monopolistic Competition

\* no well-defined supply curve

P

MC

ATC

MR

Q\*

Q

- level of output determined by MR = MC
- but price determined by demand curve

