Review For Midterm 2

Exam 2 covers Chapters 6, 7, 8, 9, and 11.

Review For Midterm

There are 8 multiple choice questions (5 pts each), 1 mandatory long answer question (30 pts), and 2 long answer questions (30 points each), of which you choose one.

- Firm
- Production function
- Marginal Product
- Isoquant
- Rate of Technical Substitution (RTS)

- Technical progress
- Returns to scale
- Fixed-proportion production function

- Economic costs
- Sunk costs
- Opportunity costs
- Accounting costs
- Wage rate
- Rental rate
- Economic Profit

- Expansion path
- Average cost
- Marginal cost
- Disceconomies of scale
- Economies of scale
- Short run
- Long run



- Fixed costs
- Variable costs

- Marginal revenue
- Price taker
- Marginal revenue curve
- Short run supply curve
- Shutdown price

- Equilibrium price
- Short run market supply curve
- Short run elasticity of supply
- Constant cost case
- Increase cost case
- Consumer surplus
- Producer surplus

- Ricardian rent
- Economically efficient allocation of resources
- Tax incidence theory
- Deadweight loss
- Tariff

- Barrier to entry
- Natural monopoly
- Monopoly rents

- MPL= $\frac{\partial q}{\partial L}$
- MPK= $\frac{\partial q}{\partial K}$
- RTS= $\frac{MPL}{MPK}$

$$TC = wL + vK$$

$$\blacksquare \pi = TR - TC = pq - wL - vK$$

$$\blacksquare \pi = pf(K, L) - wL - vK$$

■ RTS=
$$\frac{w}{v}$$

$$\blacksquare$$
 $TC(L,K) \implies TC(q)$

$$\blacksquare$$
 $AC = \frac{TC}{q}$

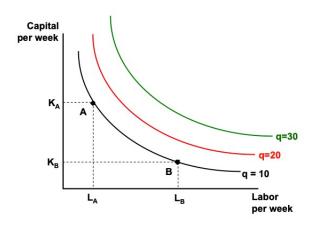
■
$$MC = \frac{\partial TC}{\partial q}$$

- MR=MC
- P=MR
- lacksquare $MR = rac{\partial TR}{\partial q}$
- \blacksquare P < AVC
- $\blacksquare P < AC$

- Welfare calculations
- Tax incidents
- Solving supply and demand
- International trade

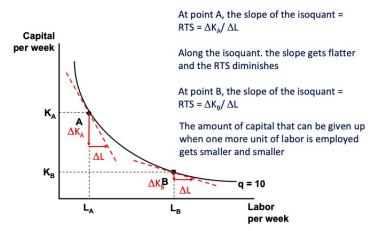
- MR=MC
- DWL

Isoquant Map

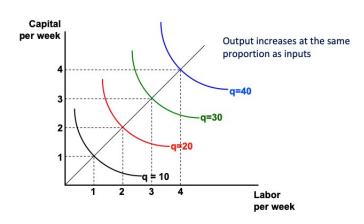




Rate of Technical Substitution

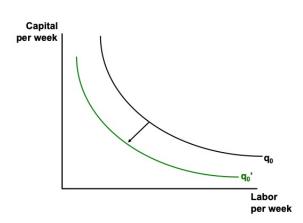


Constant Returns to Scale



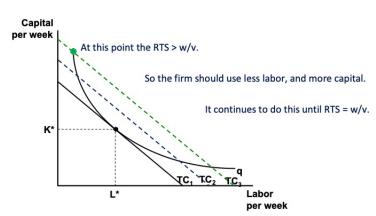


Changes in Technology



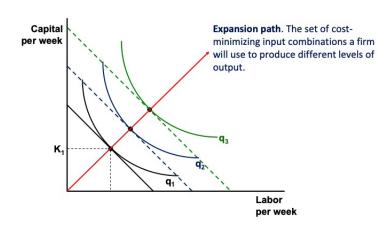


Cost Minimizing Input Choice: Graphical Approach



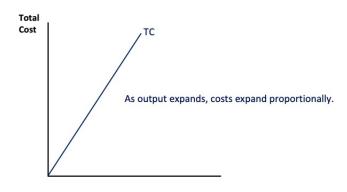


The Firm's Expansion Path

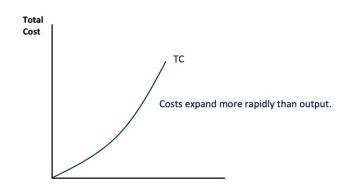




Cost Curves: Constant Returns to Scale

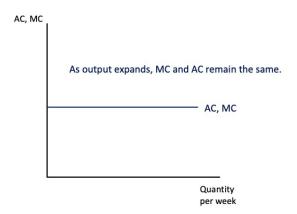


Cost Curves: Decreasing Returns to Scale



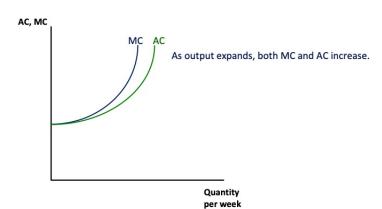


Average and Marginal Cost Curves: Constant Returns



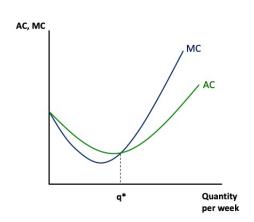


Average and Marginal Cost Curves: Decreasing Returns

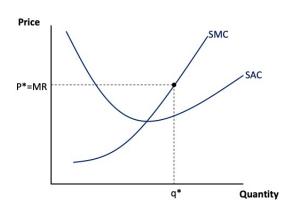




Average and Marginal Cost Curves: Optimal Scale

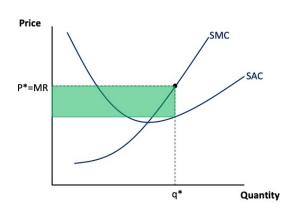


Supply Decision for a Price Taking Firm

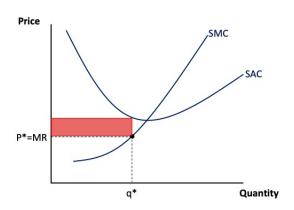




Economic Profit: P* > SAC

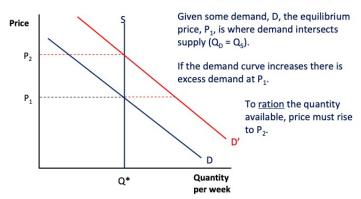


Economic Loss: P* < SAC



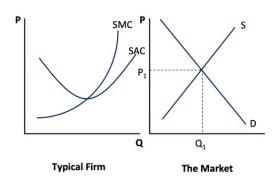
Pricing In The Very Short Run

In the very short run supply is <u>fixed</u> at Q*.



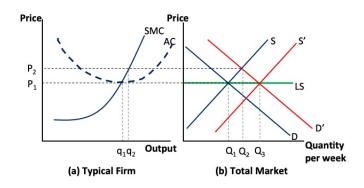


Short-Run Price Determination



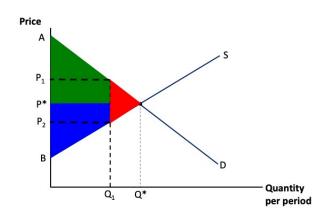
Long Run Supply: Constant Costs

A market in which entry or exit has no effect on costs.



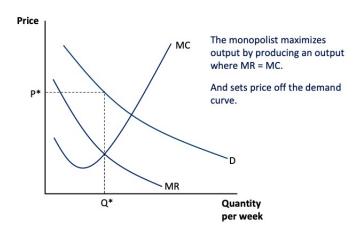


Welfare Economics





Profit Maximization in a Monopoly





Economic Profits For A Monopoly

