

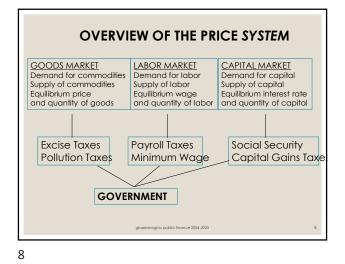
Basic questions that all economic systems must answer • How does the economy provide for cyclical stability ? • How does the economy sustain economic growth overtime ? **STABILIZATION QUESTIONS** 5

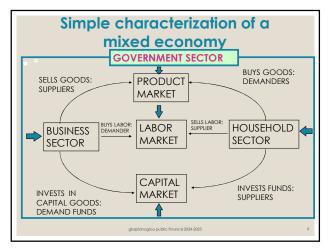
**MARKET SYSTEM** 

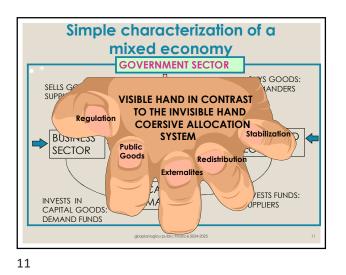
- A price system is a social economic organization based on **individual choices** and property rights.
- Understanding the price system is important because:
- 1 The market is the alternative to government intervention and control.
- 2 Tax and expenditure policies impact decisions in the private markets.
- 3 The concept of economic efficiency needs to be defined more specifically.

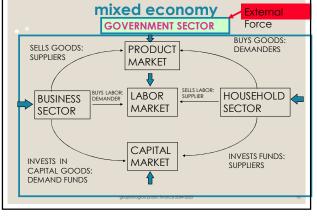




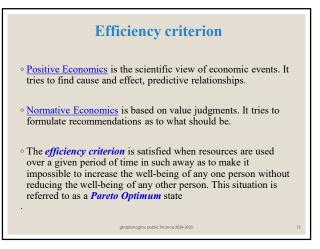




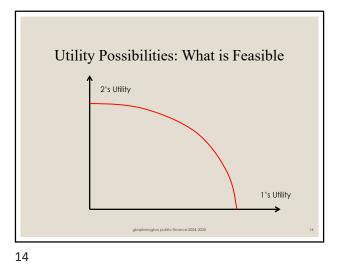




Simple characterization of a

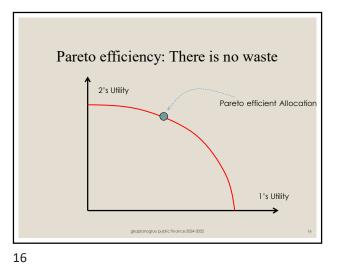






Utility Possibilities: What is Feasible  $\int_{(1-y)^2 \times (1-y)^2} \int_{(1-y)^2 \times (1-y)^2} \int_$ 

Market Failures in a Static Context • Exercise of Monopoly Power  $MSB_{M} = P_{M} \qquad MSC_{M} \qquad MSC_{M} \qquad MSC_{M} \qquad D = MSB$   $MSC_{M} \qquad U_{M} \qquad U_{M}$ 

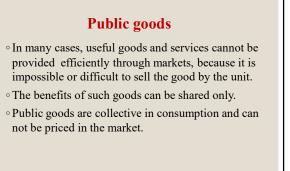


Excise Tax and the Loss of Efficiency MPC+T > MSC MSC = MPC MSC = MSC MSC = MPC MSC = MSC MSC = MSC

### Externalities

- This case is the situation of positive and negative externalities. For example, exhaust fumes from automobiles, trucks and buses decreases air quality and impairs public health.
- This cost is not reflected in marginal private costs. Thus inefficiency arises.
- Education may create positive external benefits and in effect be under produced by the market.

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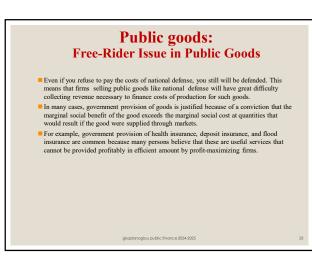


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#### **Public goods**

- "**Public**" goods are distinguished from private goods in that private goods are consumed by individuals and whose benefits are not shared with others who do not make the purchase.
- A distinguishing characteristic of public goods is that a given quantity of such goods can be enjoyed by additional consumers at no reduction in benefits to existing consumers.

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## Public goods

- *National defense* is an example of a public good having this property. Increases in population occur daily; and the additional population can be defended without any reduction in benefits to the existing population.
- Another characteristic of public goods is that their benefits cannot be easily withheld from persons who choose not to contribute to their finance.

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## **Incomplete Information**

- Whenever private markets fail to provide a good or service even though the cost of providing it is less than what individuals are willing to pay
- Examples: insurance and capital markets
- Reasons: innovation, transaction costs, asymmetry of information and enforcement costs
- The reason why markets do not exist may have implications for how governments might go about remedying the market failure

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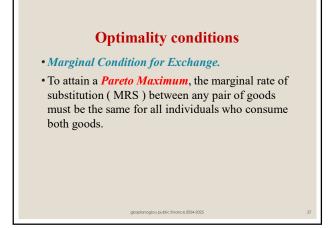
# **Incomplete Information**

- A number of government activities are motivated by imperfect information on the part of the consumers, and by the belief that the market, by itself, will supply too little information (e.g. regulations on information disclosure)
- Information is, in many respects, a *public good*: the private market will often provide an inadequate supply of information, just as it supplies an inadequate amount of other public goods.

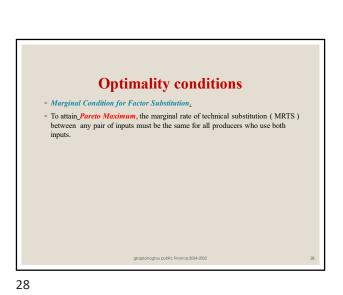
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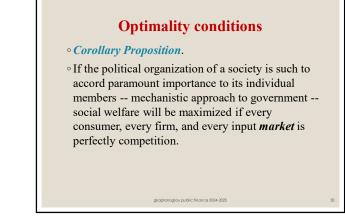


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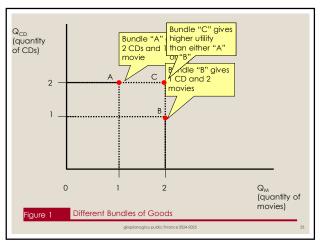


**Optimality conditions** •*Marginal Condition for Product Substitution.* • To attain a *Pareto Maximum*, the marginal rate of transformation (MRT) in production must equal the marginal rate of substitution in consumption for every pair of commodities and for every individual who consumes both.

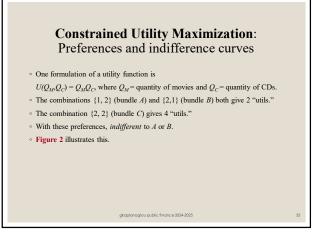
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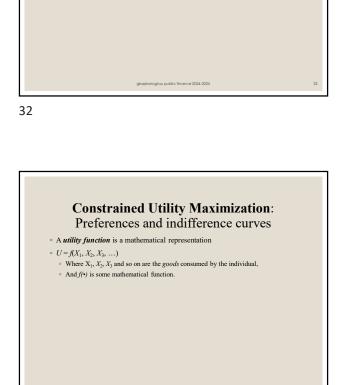




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**Constrained Utility Maximization:** 

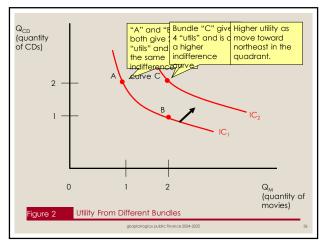
Preferences and indifference curves

· Figure 1 illustrates some preferences over movies (on the x-axis) and CDs (on

• Because of non-satiation, bundles A and B are both inferior to bundle C.

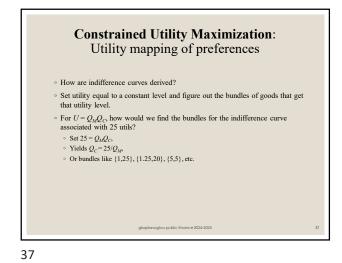
the y-axis).

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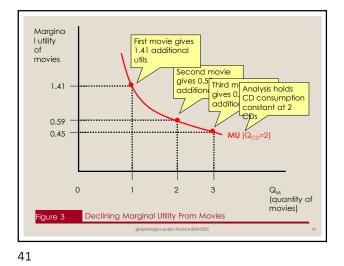




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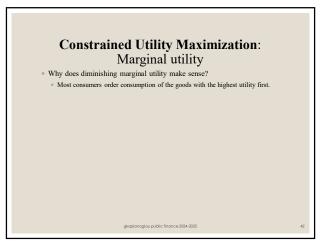
**Constrained Utility Maximization:** Marginal utility • With the utility function given before,  $U = Q_M Q_C$ , the marginal utility is:  $MU_{Q_M} = \frac{\mathcal{A}U}{\mathcal{Q}_M} = Q_C$ • Take the partial derivative of the utility function with respect to  $Q_M$  to get the marginal utility of movies.

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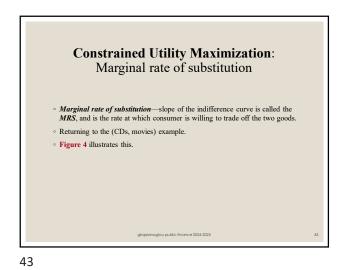


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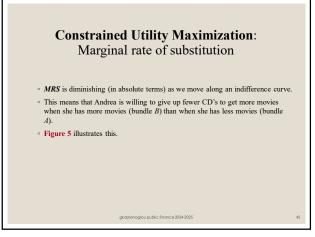




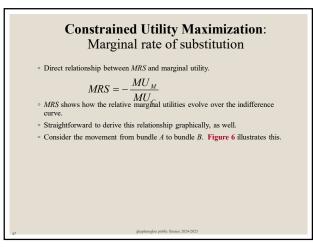


Q<sub>CD</sub> (quantity of CDs) MRS at bundle C Marginal r appears to be larger than B but smaller than substitutior A is its slop MRS at bundle B is smaller in absolute 2 terms than at A. 1 IC<sub>1</sub> 0 2 Q<sub>M</sub> (quantity of movies) igure 4 Marginal Rate of Substitution At Different Bundles gkaple noglau public finance 2024-202

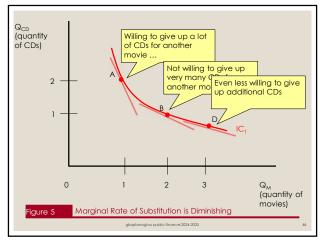
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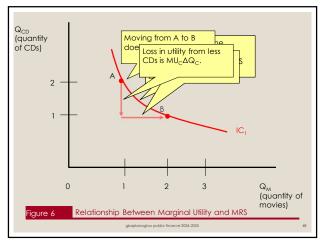


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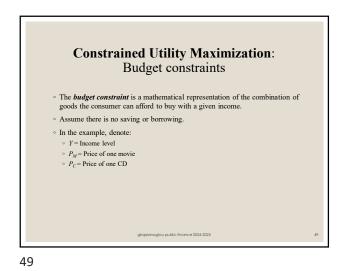


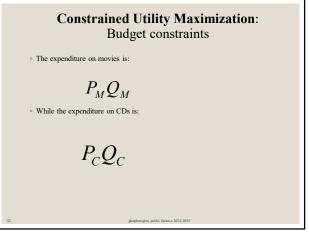
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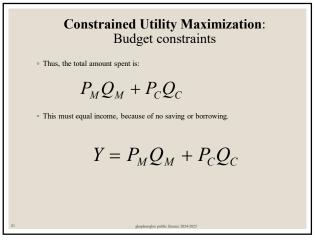


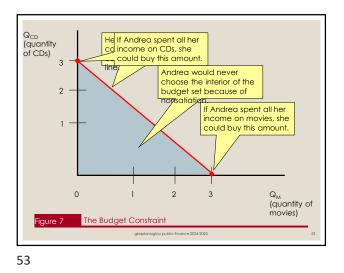


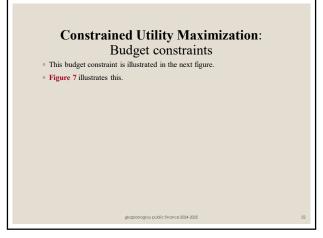


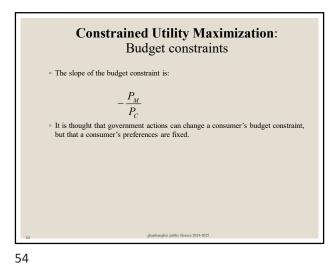




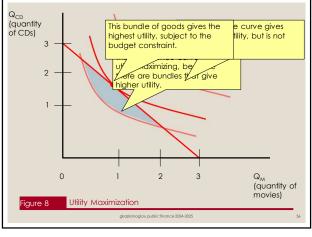


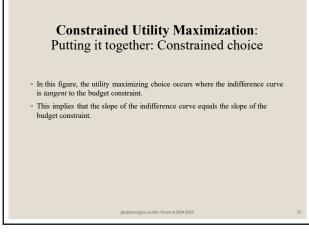


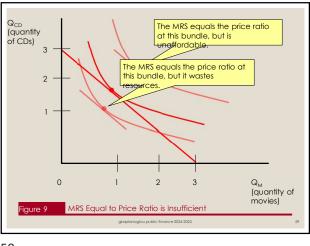


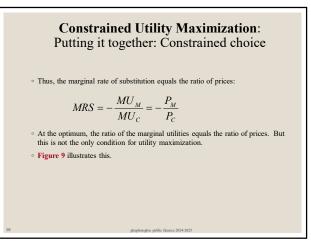


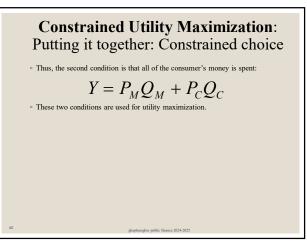




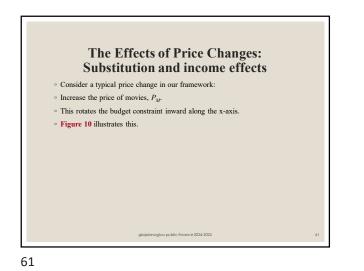


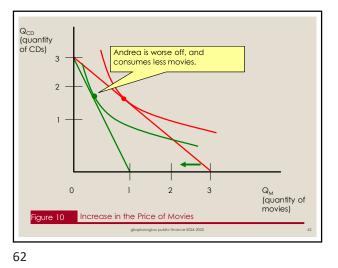


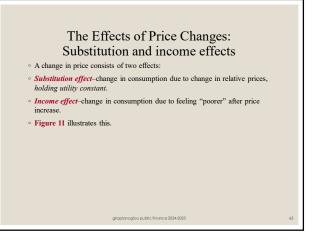


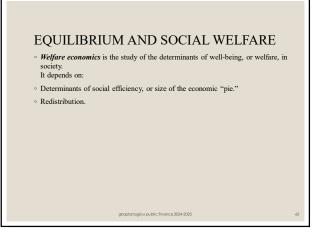


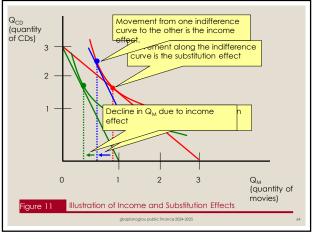


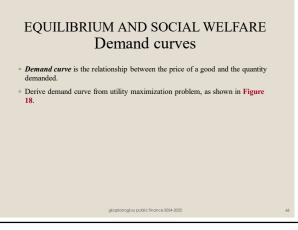




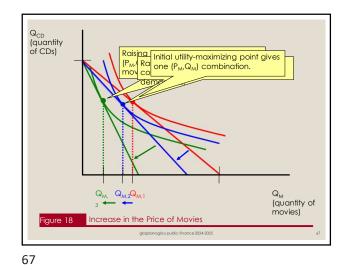


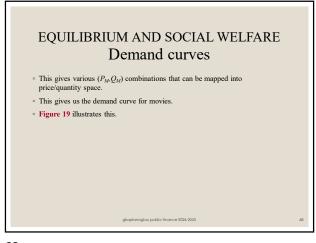












**EQUILIBRIUM AND SOCIAL** 

**WELFARE** Elasticity of demand

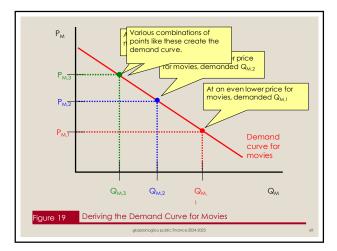
• A key feature of demand analysis is the *elasticity of demand*. It is defined as: alysis is us  $\varepsilon_D = \frac{\Delta Q_D / Q_D}{\Delta P / P}$ 

· That is, the percent change in quantity demanded divided by the percent change

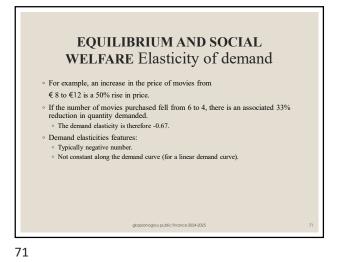
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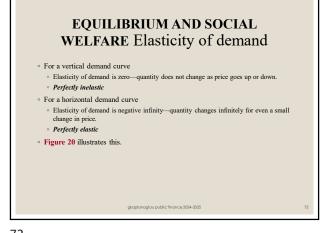
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in price.



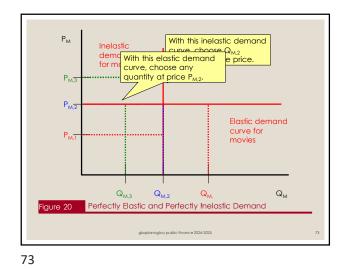
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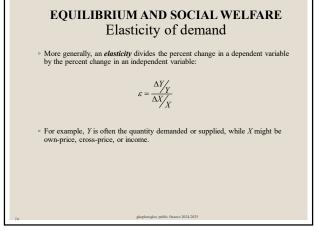


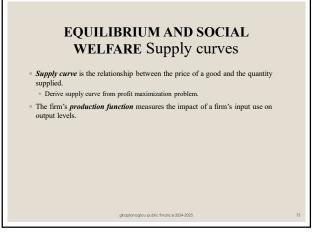


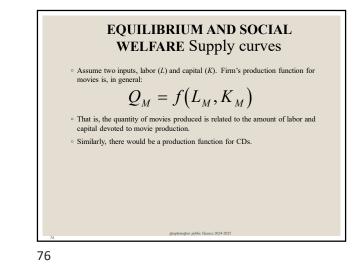


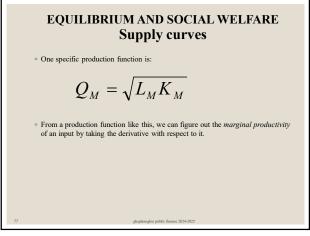
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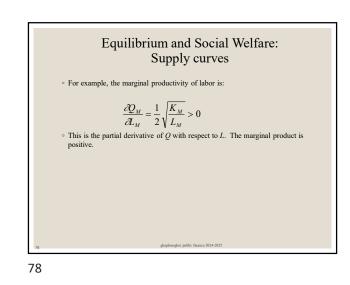


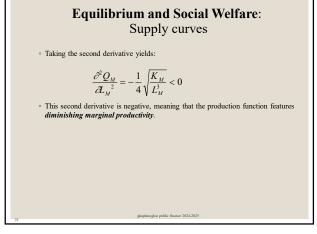


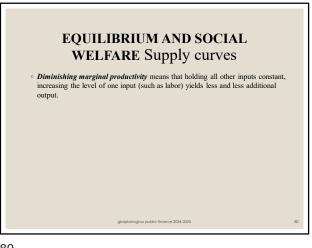


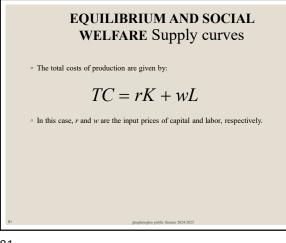


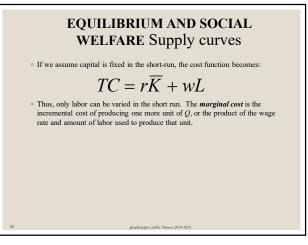


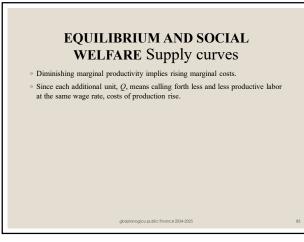




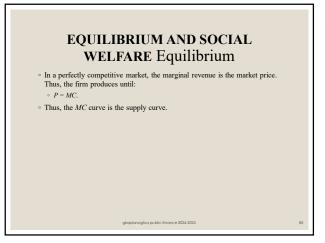


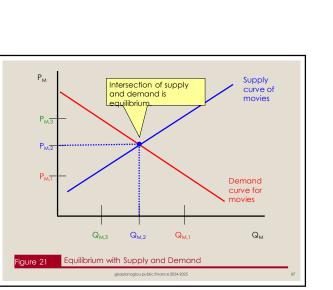




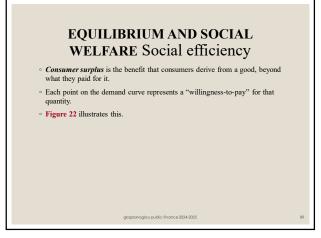


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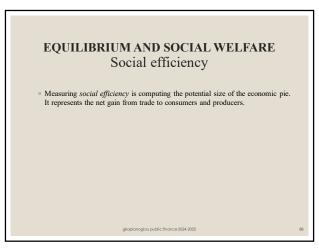




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EQUILIBRIUM AND SOCIAL WELFARE Equilibrium

· In equilibrium, we horizontally sum individual demand curves to get aggregate

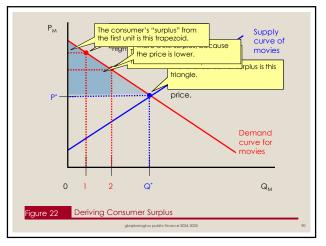
· We also horizontally sum individual supply curves to get aggregate supply.

 Competitive equilibrium represents the point at which both consumers and suppliers are satisfied with the price/quantity combination.

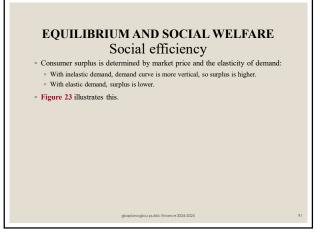
demand

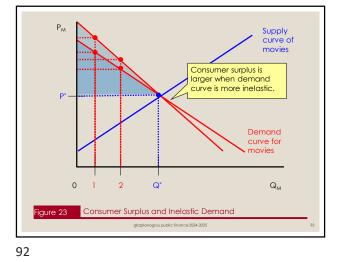
• Figure 21 illustrates this.

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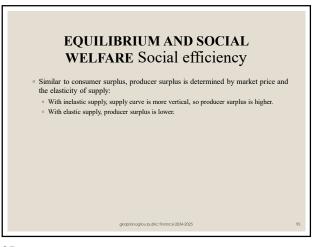


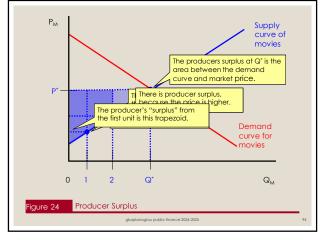


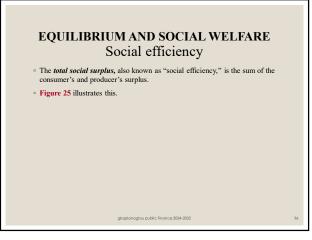




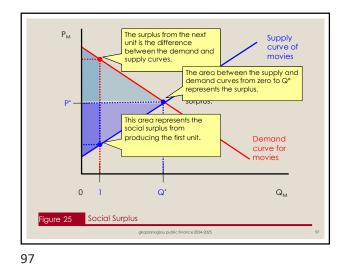
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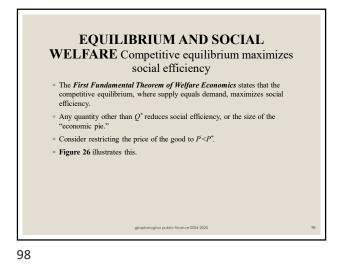






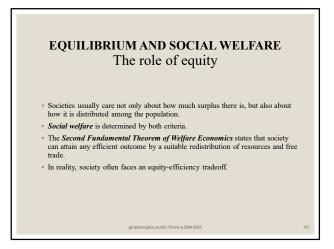






Р<sub>м</sub> VlaguZ curve of This triangle represents lost surplus to society, known as "deadweight loss." movies Wi restriction, the quantity falls to Q', and there is excess P' demand. P Demand curve for movies Q Q\* Q<sub>M</sub> Figure 26 Deadweight Loss from a Price Floor

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