## ECONOMICS 201: WEEK 1 SUPPLY AND DEMAND

## MICRO VIEW OF THE ECONOMY

Economy is composed of a collection of markets.

Types of Markets

- Product Markets
- Labor Markets
-Capital Markets


## COMPETITION IN MARKETS

## Perfectly competitive market

- No buyer or seller has the power to influence price.
- Supply and demand model

Imperfectly competitive market

- Buyers or sellers have power to influence price.


## COMPETITION IN THE REAL WORLD

Perfect competition

- Rare

Supply and demand model

- Versatile and widely used model
- Most markets have characteristics that prevent markets from behaving exactly as predicted.


## DEMAND

Buyers determine demand.
Demand schedule

- Quantities of a good that consumers would choose to purchase at different prices.
- At a certain period of time.
- ceteris paribus


## DEMAND SCHEDULE

## Price \$0.00 <br> 0.50 <br> 1.00 <br> 1.50 <br> 2.00 <br> 2.50 <br> 3.00 <br> Quantity <br> 12 <br> 10 <br> 8 <br> 6 <br> 2

## DEMAND CURVE



## SUPPLY

Sellers determine supply.
Supply schedule

- Quantities of a good that firms would be willing to offer for sale at different prices.
- At a certain period of time.
- ceteris paribus


## SUPPLY CURVE

## Price of <br> Ice-Cream Cone <br> 

## SUPPLY AND DEMAND TOGETHER

Demand Schedule


Supply Schedule


At \$2.00, the quantity demanded is equal to the quantity supplied!

## EQUILIBRIUM OF SUPPLY AND DEMAND

## Price



## EXCESS SUPPLY

Price


## EXCESS DEMAND

At $\$ 1.50$, quantity demanded = 10, but


## EQUILIBRIUM \& DISEQUILIBRIUM

## Equilibrium

- Means market has no tendency to change.
- Quantity demanded = Quantity supplied
- No shortage or surplus.

Disequilibrium

- Means market is not at rest.
- Tendency for market forces to adjust until new equilibrium is reached.


## DISEQUILIBRIUM

## Caused by:

- Changes in Demand.
- New Demand Schedule
- Shift in Demand Curve
- Changes in Supply.
- New Supply Schedule.
- Shift in Supply Curve


## FACTORS THAT SHIFT THE DEMAND CURVE

1. Consumer Income
2. Consumer Wealth
3. Prices of related goods
4. Expected price or expected income.
5. Changing Tastes
6. Other variables

## FACTORS THAT SHIFT THE DEMAND CURVE 1. Consumer Income

- The amount that an individual earns over a particular period
Normal good
- A good that people demand more of as their income rises

Inferior good

- A good that people demand less of as their income rises


## EXAMPLES OF NORMAL AND INFERIOR GOODS

If your income increases you might buy more:

- Organic chicken
- A new car

If your income increases you might buy less:

- Top Ramen
- Clothing from Wal-Mart


## CONSUMER INCOME



## CONSUMER INCOME

Price INFERIOR GOOD


## FACTORS THAT SHIFT THE DEMAND CURVE 2. Consumer Wealth

$=$ Net Worth = Assets - Liabilities (debts)
Increase in wealth

- Increases demand for a normal good
- Decreases demand for an inferior good


## FACTORS THAT SHIFT THE DEMAND CURVE

## 3. Prices of related goods

## Substitutes

- A good that is used in place of some other good - An increase in the price of a good will tend to increase the demand for a substitute good.
- Examples of substitutes: Coffee or tea, Hamburger or pizza


## FACTORS THAT SHIFT THE DEMAND CURVE

3. Prices of related goods

## Complements

- A good that is used together with some other good
- An increase in the price of a good will tend to lower the demand for a complement.
- Examples of complements: batteries and toys, gasoline and big cars.


## PRICES OF OTHER GOODS

## Price of Vanilla Ice-

 Cream

An Increase in the Price of Chocolate Ice Cream increases demand for Vanilla.

Quantity of Vanilla IceCream

## PRICES OF OTHER GOODS COMPLEMENTS

Price of Flashlights


| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

## FACTORS THAT SHIFT THE DEMAND CURVE

## 4. Expectations

- Price will rise in the future?
- Increases current demand.
- Price will fall in the future?
- Decreases current demand.


## FACTORS THAT SHIFT THE DEMAND CURVE

## 4. Expectations

- Income will rise in the future?
- Increases current demand.
- Income will fall in the future?
- Decreases current demand.


## CHANGE IN SUPPLY

Price


## FACTORS THAT SHIFT THE SUPPLY CURVE

1. Input prices
2. Technology
3. Expected price
4. Changes in weather or other natural events

## FACTORS THAT SHIFT THE SUPPLY

 CURVE
## 1. Input prices

-A fall in the price of an input will increase supply.

- Price of cheese falls, cheese pizza costs less to produce. So firm will produce more at a given price.
- An increase in the price of an input will decrease supply


## FACTORS THAT SHIFT THE SUPPLY CURVE

## 2. Technological advance in production

- A firm can produce a given level of output in a new and cheaper way than before
- Decreases costs of production, so firm will supply more at a given price.


## FACTORS THAT SHIFT THE SUPPLY CURVE

## 3. Expected price

- An expectation of a future price rise will reduce current supply.
- Firm will wait to supply more when the price is higher.
- An expectation of a future price drop will increase current supply.


## FACTORS THAT SHIFT THE SUPPLY CURVE

4. Changes in weather and other natural events

- Favorable weather - increases crop yields
- Unfavorable weather - destroys crops
- Natural disasters destroy or disrupt productive capacity


## SUPPLY

Basically, anything that affects profits will affect supply.

Profits = Revenues - Costs

- Revenues = Sales
- Costs:
- "inputs" - raw materials, labor, capital, rent, insurance, etc.
Higher profits = greater supply.


## SHIFTS IN DEMAND



## SHIFTS IN DEMAND

## Lower income decreases demand for ice cream.




## SHIFTS IN BOTH DEMAND \＆SUPPLY？

Not as clear cut．Forces are operating in opposite directions．
Example： $\mathbf{S}$ 亿 and $\mathrm{D} \sqrt{ }$
－ S 亿 means $\mathrm{Pe}^{\mathrm{i}}$ 仑 and $\mathrm{Qe}^{\wedge} \sqrt{ }$
－D $\sqrt{ }$ means $\mathrm{Pe}^{\text {er }}$ and $\mathrm{Q}^{\mathrm{e}} \sqrt{ }$
－Result：Quantity will fall，but price？？？
$\mathbf{p e}^{\mathrm{e}}=$ Equilibrium Price
$Q^{\mathrm{e}}=$ Equilibrium Quantity

## SHIFTS IN BOTH DEMAND \＆SUPPLY？

## Second Example： $\mathbf{S} \hat{\wedge}$ and $\mathrm{D} \hat{\imath}$

- S仑 means $\mathrm{Pe}^{\mathrm{S}}$ 今 and $\mathrm{Q}^{\mathrm{e}}$ ，
- D介 means $\mathrm{Pe}^{\mathrm{e}}$ 乞 and $\mathrm{Q}^{\mathrm{e}}$ 乞
－Price will rise，but quantity？？？

