## Product (A): Normal Goods



Analysis Keys:

# Definition:

A normal good is a good for which, during a given period of time, other factors affecting demand held constant, there is a positive or direct relationship between consumer income and demand.



#### **Types of Normal Goods:**

- Essential/Basic Goods (Or Necessities)
- Luxury/Superior Goods

Law of Demand	Substitution Effect (SE)	Income Effect (IE)	Price Effect (PE
Supporting /Upholding			
Against/ Opposing			

### Price Effect for a Normal Good

(1)	(3) ΔR <sub>P</sub>	(4)	(5) <b>SE</b>	
ΔΡ <sub>Α</sub>	(of Own Good)	ΔQd <sub>A</sub>	[Compare: ( <b>3</b> ) & ( <b>4</b> )]	
<b>↓</b> <sup>(2)</sup>	Relatively Cheap	①		-
<b>1</b> <sup>(2)</sup>	Relatively Expensive	Û		-

(1)	(3) ΔR <sub>Y</sub>	(4)	(5) <b>IE</b>
ΔΡ <sub>Α</sub>	(of Own Buyers)	ΔQd <sub>A</sub>	[Compare: <b>(3</b> ) & <b>(4</b> )]
<b>1</b> <sup>(2)</sup>	Relatively <b>Rich</b>	①	
<b>1</b> <sup>(2)</sup>	Relatively Poor	Û	

(2) Ceteris Paribus (CP): 'all other factors affecting (D)'

### Price Effect (PE):

- We compare  $(\Delta P_A)^{(1)}$  and  $(\Delta Qd_A)^{(4)}$   $\Delta \nabla$
- (PE) is 'Negative', and supports/upholds Law of Demand
- Demand Curve will be downwards sloping from left to right or negatively sloping

## Substitution Effect (SE):

- Focus → Relative Price (R<sub>P</sub>) change of Own Goods
- We compare  $(\Delta \mathbf{Rp})^{(3)}$  and  $(\Delta \mathbf{Qd}_A)^{(4)}$
- (SE) is 'Negative', and supports/upholds
  Law of Demand

### Income Effect (IE):

- Focus → Real Income (Ry) change of Own Buyers
- We compare  $(\Delta \mathbf{R} \mathbf{y})^{(3)}$  and  $(\Delta \mathbf{Q} \mathbf{d}_{\mathbb{A}})^{(4)}$   $\Delta \nabla$
- (IE) is 'Positive', and supports/upholds
  Law of Demand



## Elasticity of Demand & Normal Goods

Types <i>of</i> Normal Goods	Income Elasticity of Demand (YED)		Price Elastici	ty of Demand (PED)
	YED	Coefficient	PED	Coefficient
Normal Goods		YED > 1(Elastic) / YED < 1 (Inelastic)		PED > 1(Elastic) / PED < 1 (Inelastic)
Essential Good (Necessity)		YED < 1 (Inelastic)	Negative	PED < 1 (Inelastic)
Luxury/Superior Good		YED > 1 (Elastic)		PED > 1 (Elastic)



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#### **Definition:**

A giffen good is a special type of inferior good for which, during a given period of time, other factors affecting demand held constant, there is a positive or direct relationship between own price and quantity demanded.



## Price Effect for a Giffen Good

(1)	(3) ΔR <sub>P</sub>	(4)	(5) <b>SE</b>	
	(of Own Good)	ΔQa <sub>c</sub>	[Compare: ( <b>3</b> ) & ( <b>4</b> )]	
<b>↓</b> <sup>(2)</sup>	Relatively Cheap	①		
<b>1</b> <sup>(2)</sup>	Relatively Expensive	Û		Ĵ

(1)	(3) ΔR <sub>γ</sub>	(4)	(5) IE	
ΔP <sub>c</sub>	(of Own Buyers)	$\Delta Qd_c$	[Compare: ( <b>3</b> ) & ( <b>4</b> )]	
<b>↓</b> <sup>(2)</sup>	Relatively <b>Rich</b>	Û		-
<b>1</b> <sup>(2)</sup>	Relatively Poor	①		

(2) Ceteris Paribus (CP): 'all other factors affecting (D)'

### **Price Effect (PE):**

- We compare  $(\Delta Pc)^{(1)}$  and  $(\Delta Qdc)^{(4)}$   $\Delta \nabla$
- (PE) is 'Positive', since (IE) overpowers (SE), i.e. (IE > SE), and goes against/opposes Law of Demand
- Demand Curve will be upwards sloping from left to right or positively slopped

Income Elasticity of Demand (YED) is 'Negative'

✓ Price Elasticity of Demand (PED) is 'Positive'

### Substitution Effect (SE):

- Focus → Relative Price (R<sub>P</sub>) change of Own Goods
- We compare  $(\Delta \mathbf{Rp})^{(3)}$  and  $(\Delta \mathbf{Qd_c})^{(4)}$   $\Delta \nabla$
- (SE) is 'Negative', and supports/upholds Law of Demand

#### Income Effect (IE):

- Focus → Real Income (R<sub>Y</sub>) change of Own Buyers
- We compare  $(\Delta \mathbf{R} \mathbf{y})^{(3)}$  and  $(\Delta \mathbf{Q} \mathbf{d}_{\mathbf{C}})^{(4)}$
- (IE) is 'Negative', and against/oppose Law of Demand



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## Price Effect: Application [1]

Analysis <b>Keys</b> :	Negative or Po	sitive	
Law of Demand	Substitution Effect (SE)	Income Effect (IE)	Price Effect (PE)
Supporting /Upholding			
Against/ Opposing			

## Price Effect: Application [2]

Turne of good	Effect on [ΔQd] of a <u>rise</u> in price [ΔP个]			
Type of good	Substitution Effect [SE]	Income Effect [IE]	Total Price Effect [PE]	
Normal good	Fall [- Negative]	Fall [+ Positive]	Fall [SE = IE] [- Negative]	
Inferior good				
Giffen good				

Turne of good	ice [ΔP↓]		
Type of good	Substitution Effect [SE]	Income Effect [IE]	Total Price Effect [PE]
Normal good	Rise [- Negative]	Rise [+ <b>Positive</b> ]	Rise [SE = IE] [- Negative]
Inferior good			
Giffen good			

## Price Effect: Application [3]

Good (1):

Change in Price	Substitution Effect (SE)	Income Effect (IE)	Price Effect (PE)
Decrease in Price (△P↓)	Negative (∆Qd ↑)	Negative ( $\Delta Qd \downarrow$ )	Positive (∆Qd↓)
Increase in Price (∆P↑)	Negative ( $\Delta Qd \downarrow$ )	Negative (∆Qd ↑)	Positive (∆Qd↑)

Good (2):

Change in Price	Substitution Effect (SE)	Income Effect (IE)	Price Effect (PE)
Decrease in Price (△P↓)	Negative (∆Qd ↑)	Negative ( $\Delta Qd \downarrow$ )	Negative (∆Qd ↑)
Increase in Price (△P ↑)	Negative ( $\Delta Qd\downarrow$ )	Negative (∆Qd ↑)	Negative ( $\Delta Qd \downarrow$ )

Good (3):

Change in Price	Substitution Effect (SE)	Income Effect (IE)	Price Effect (PE)
Decrease in Price (∆P↓)	Negative (∆Qd ↑)	Positive (∆Qd↑)	Negative (∆Qd ↑)
Increase in Price (∆P↑ )	Negative ( $\Delta Qd \downarrow$ )	Positive (∆Qd↓)	Negative ( $\Delta Qd \downarrow$ )