Principles of Economics (Spring 2024) Lecture 4 Demand and Supply

art I		中部二個中五個	
	Market - An arrangement through which	buyers an	d <u>sellers</u>
	meet or communicate and engage in transact	A CONTRACTOR OF THE PARTY OF TH	
		Manual Man	PRA T
Part II	normania in		
	Demand		
		key word	
	• Quantity Demanded (QD) – The		
	are willing and able topurchas		price
	given all other influences on their decision (Depended Variable)	on to buy.	
	(Ruantity Demanded ;)	Price (Independent Va	riable)
	Demand function = $6^p = ap +$		
	• Demand (D) - A relationshi	between the	price
	of an item and theQUANTITY		
			• 00
		t(p) = ap + b	
	**************************************	indepen	Febender
		Visitable	
	• The Law of Demand - Holding every		
	when theprice	of a productfoll	<u>s</u> , the
	quantity demanded		of the product will
	increase; when t		
	rises, thequar	ntity demanded	- Alling at a discourse p
	of the product willdecrea	ise	
	PT = aD 1	01 - 611	
	11 = 0 4	J - Q	
		the sales from the color of the sales of the sales of the color of the sales of the	

* Ceteris Paribus Condition – The requirement that when analyzing the relationship between two variables, such as price and quantity demanded, other variables must be held constant.

Math Review

Function

* In mathematics y = f(x) = ax + bDependent Independent variable variable

To graph it, we put the independent variable on the horizontal	axis
and the dependent variable on the	axis:
y_{\parallel}	
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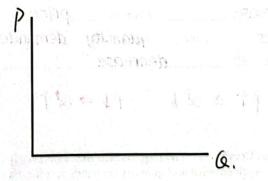
quantity demanded some some simple states and the source of the source o

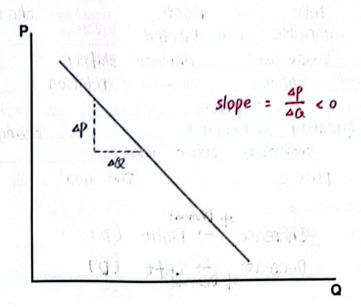
$$Q = f(p) = ap + b$$

Dependent

Variable

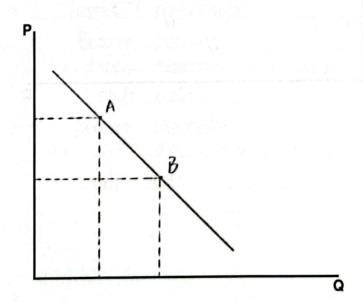
Variable



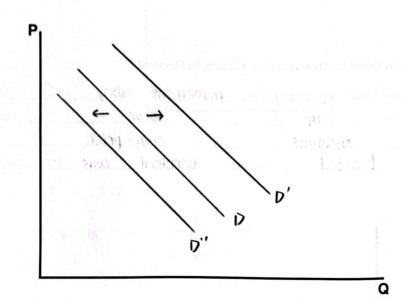


• Change in Quantity Demanded vs. Change in Demand

0	Change in quantity demanded → _		movement along		the line	
	Either	ир	or	-1		caused by
		changes	in _	own.	- price	<u> </u>
	,	abeled on the	e 1/0	ctical	Oxic)



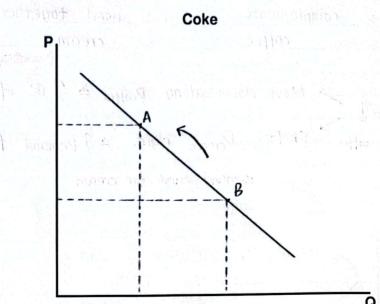
Change	e in demand →sh	ift	the <u>entir</u>	<u>e</u> li	ne
Either	left or	rìght	caused by _	changes	
in	variable not	labeled	3111 - 7	17	
	DXES AXES				_)
	change		The second secon		
	en the Pri				the
(quantity deman	ded	caused by	changes	
in	something	other th	an		the
	price				
➤ Ru	le of Thumb	Demand			
	Increase of	→ Right	(D')		
	Decrease	→ Left	(D")		
	OI-	L/P IT ICATI/I			



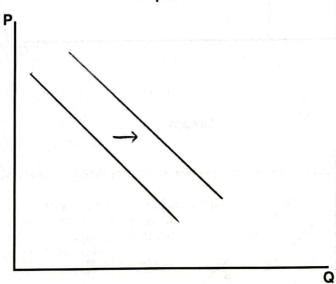
Demand Shifters

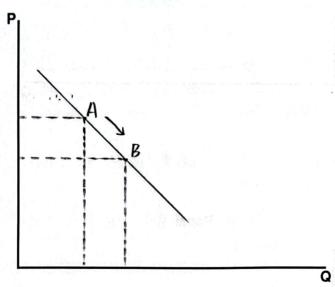
1	Income
	Normal good
	(e.g., GPone) iPhone bollet ticket):
	higher income
	⇒ Buy more
	⇒ <u>shifts right</u>
	Inferior good
	higher income canned food higher income
	⇒ Buy less
	⇒ shift the demand curve left
2 <u>1</u>	Population / Number of buyers
.	Increase in Number of buyers ⇒ shift right
	decrease in Number of buyers
	⇒ <u>shift left</u>
③	Tastes 1 Preferences
	Posome popular
	(e.g., <u>hire</u> a <u>superstar</u> for <u>commercial</u> (advertisement)
	⇒ <u>Shift right</u>
	Become unpopular (e.g., seller did something really bad):
	⇒ shift left

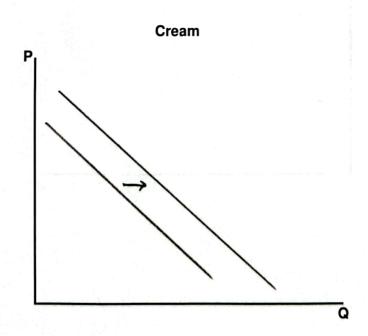




Pepsi







the quantity demanded	0
itself goes down	SHJ . Y
and the <u>ee demand</u>	_ for it
substitudes increases?	
while the demand	for it
complements lowers	
when thePrice	0
one good falls	D. T.
the quantity demanded	0
the quantity demanded itself rises	
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complements is higher	7 6 7 7
while thedemand	for its
substitudes drops	_

Exercise 1

- Which of the following will NOT shift the current demand curve for a good?
 - A. A change in the expected future price of this good.
 - B. A change in the current price of this good.
 - C. A change in the price of the substitute good.
 - D. A change in consumer income.

Exercise 2

- C Which of the following would increase the demand of Dell laptops?
 - A. HP laptop price decreases. \
 - B. Dell issue coupons for laptops.
 - C. Dell reduces the prices for laptop mice and printers.
 - D. None of the above.

Part III

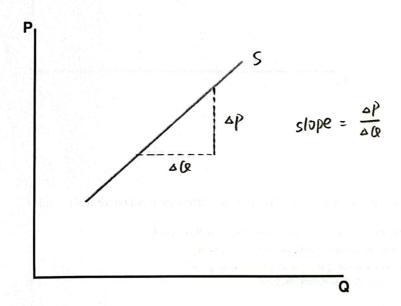
Supply

- Quantity Supplied (Q^s) The ________ of a good or service that a ______ is willing and able to _______, ceteris paribus.
- Supply (S) A relationship between the price of an item and the quantity supplied
- Law of Supply Holding everything else constant (ceteris paribus condition), an

 increase in the price of an item will

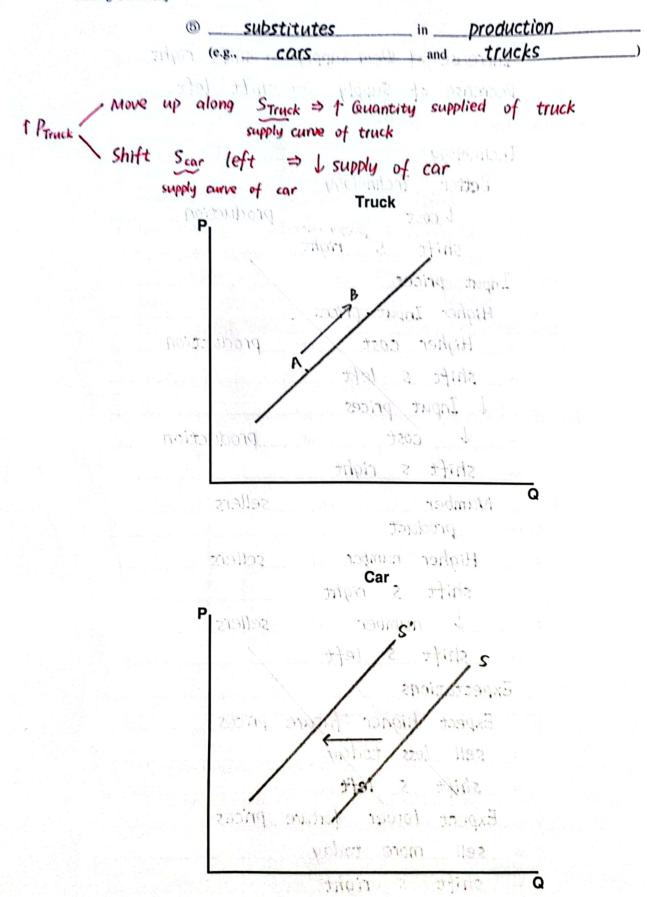
 increase its quantity supplied;
 and a decrease in the price of an item
 will decrease its quantity supplied.

• The law of supply reveals that the supply curve is <u>upward - sloping</u>



- Change in Quantity Supplied vs. Change in Supply
 - Change in quantity supplied → Movement along the line:
 Either up or down caused by changes in own-price (labeled on the vertical axis).
 - Change in supply → Shift the entire line:
 Either left or right caused by changes in variables not labeled on the axes (supply shifters).

•	Rule	of Thûmb (control of Thing)
	* _	Increase of (Dem Supply -> shift right
		Decrease of Supply → shift left
	(1-3) a F)	ly Shifters
	① _	Technology
		Better Technology
		⇒ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
		⇒
	2	Input prices
		Higher Input Prices
		⇒ <u>Higher cost</u> of <u>production</u>
		⇒ shift S left
		✓ Input prices
	•	$\Rightarrow \frac{1}{\cot \cot $
		⇒ shift s right
	0	Number of sellers
		r theproduct
		Higher number of sellers
		⇒ shift 5 rìght
		l collere
		⇒ shift s left
	(4)	Expectations
		Expect higher future prices
		⇒ sell less today
		$\Rightarrow \frac{\text{shift S left}}{\text{shift S left}}$
		Expect lower future prices
	*	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
		⇒ sell more today
		A 14 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



Exercise 3



When an industry's raw material costs increase, other things remaining the same,

- A. the supply curve shifts to the left.
- B. the supply curve shifts to the right.
- C. output increases regardless of the market price and the supply curve shifts upward.
- D. output decreases and the market price also decreases.

Exercise 4



Which of the following events will cause a leftward shift in the supply curve of gasoline?

- A. A decrease in the price of gasoline.
- B. An increase in the wage rate of refinery workers.
- C. A decrease in the price of crude oil.
- D. An improvement in oil refining technology.
- E. All of the above.