Aggregate Domand (AD) Curre

Q: What will happen to planned Aggregate Expenditures

(AE) if the price level in the economy were to change?

How W:11 AE change, +, thus, what W:11 happen to equilibrium GDP (Y)?

The AD curre illustrates the relationship between Equilibrium Y (where Y-AE) and the general price level in the economy: It shows the level of GDP a which planned expenditures equal production at each & every possible price level. We find that:

The lower the price level, the greater planned aggregate expenditures are & hence, the greater the equilibrium level of real GDP will be. Why? Because

C, Is, In are all sensitive to the change in the general price level.

Price level changes:

Reel Belence Effect! When P (gen'Iprice level) increases, the value of wealth denominated in fixed moretony terms (such as accumulated savings in bank accounts) decreases, and thus Planned Consumption Expenditures decline.

1P -> & Household Wealth -> LC

DReal Interest Rate Effect! An increase in price tends
to increase in -- the marginal cost associated with new
investment projects -- and thus fewer investment projects
In the economy will be profitable and in the aggregate planned
investment expenditures will decline (more up along the
given Investment Demand Curve)

1p -> 1ic -> [II]

3) Foreign Purchase Effect! An increase in P (holding everything else constant, Such as the exchange rate) makes
U.S. goods relatively expensive and goods produced abroad relatively inexpensive. We would expect X to Jecrease and M to increase =) Xn will decline.

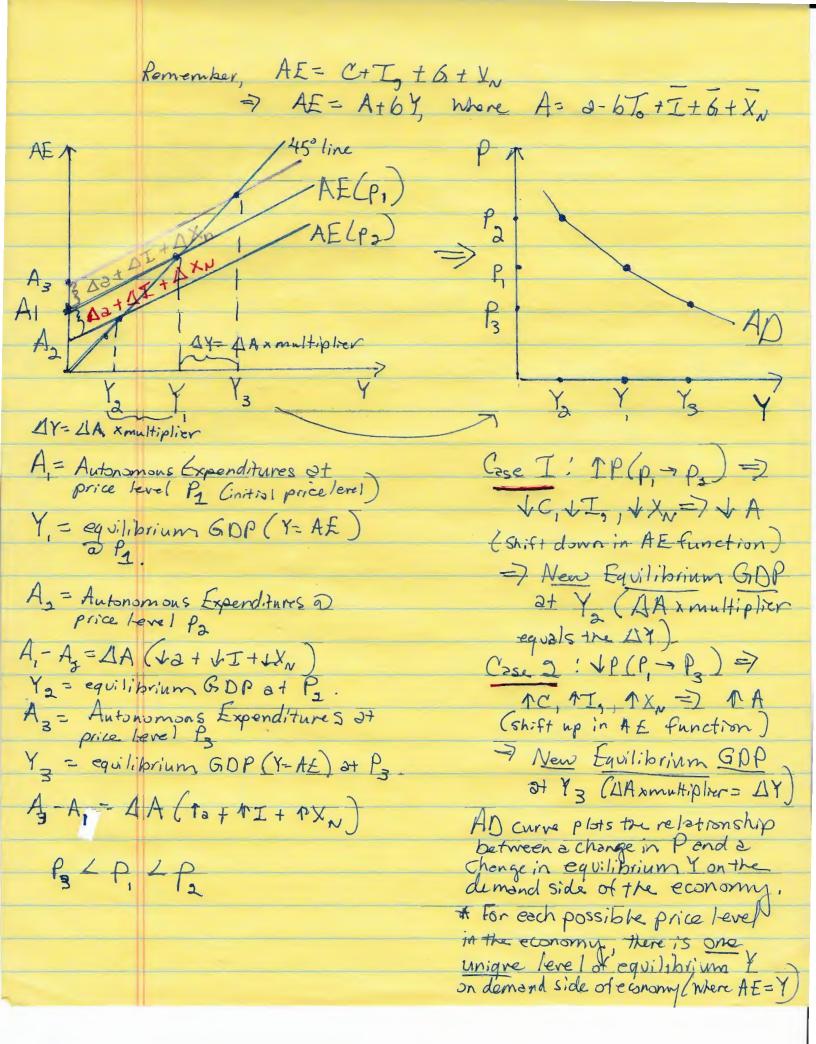
1P > JX, 1M > JXn

* The reverse will occur (all three components of AE will increase) when the general price level decreases,

We can illustrate the effect of a Change in the general price level on planned AE and trace out our AD curve!

Let P, = the initial price level in the economy There is one unique equilibrium level of real GDP at that price level (P,).

We will consider two Cases! Case I! When the price level increases (P, 7 Pa) Case I! when the price teret decreases (P, 7 Pa)



Now we have to ask the following question:

I All points along the AD curve represent equilibrium insotar as at any point, plenned AE eque IY (level of production of goods and services). That is, if output is forthcoming, then that output level can be supported by sufficient spending on the part of HH, firms, government and foreign buyers.

Thus, we can ask, at what point about the AD curve does the economy find itself?

To answer this grestion, we must introduce explicitly the Supply side of the economy. Will producers be willing to supply the recessory output level to meet the desired tevel of spending at the different possible price levels? I.e., will output always be forthcoming?

Aggregate Supply (AS) Curve! The AS curve illustrates the amount of goods & services that will be produced (forthcoming) at each price fevel. It shows the relationship between the general price level in the economy and the amount of goods & services (real GDP) producers are willing to supply,

The kay to understanding the AS curve is to understand the behavior of input of out put prices of thus the change in Profit margins for firms. Price behavior depends on time frame. The book introduces 3 time frames! Immediate run, short run, and the long run. We will focus on the two time frames: the immediate of the run.

Immediate Run

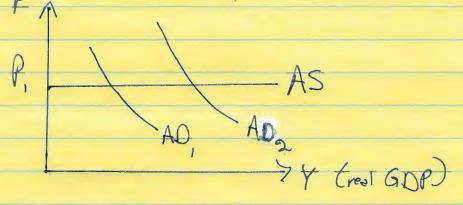
Both input prices ("costs" for firms) and output prices ("revenue")

are fixed (or what economists call "sticky").

In this case (

In this case, firms are willing to supply as much output as is demanded at the going price level in the economy, because profit morgins remain constant.

Let's say P, is the current price level in the economy



In other words, sutput will always respond to the level of AD in the economy, (This is besidely our At model equilibrium output determines him much firms dre producing.) If planned aggregate expenditures increase at the going price level, then firms will be willing to expend output to meet the increase in desired spending (AD, > AD).

S & is determined by AD(the terd of equilibrium output, where AE=Y, at the current price tend).

Short Run Input prices remain fixel. ? Profit margins can Output prices are flexible. I vary.

2) Outcome: AS curve will be upward-sloping, and will become more steep as the commy approaches the full-

Employment here of output (Y) and mores beyond Yf. (I.e., the price level increases more quickly as output Continues to increase and surposs Yf.)

Why? Two points are important for understanding the Shape of the AS curve.

Changing profit mergin

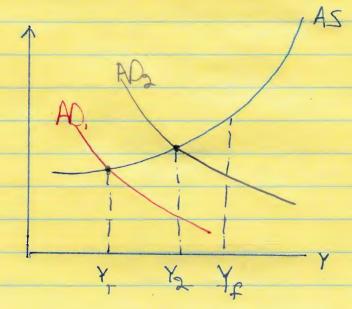
i) With fixed input prices, if the general price level increases, then all other things being equel, profit marging will increase the firms will be willing to expand production. And vice verse! H P decreeses, profit mergins decline & firms decreese

Changing unit costs

(i) At a low output level, there is under utilized capacity of production in the economy & relatively high unemployment. Firms can expand output without incurring higher unit cost of production. Thus, 2 higher price level signals 2 higher profit margin & firms are billing to increase output => AS curve is relatively flat 'a Smell increase in Pwill call forth a higher level of production due to increasing postit margins w/fixed in put prices and a lot of excess capacity that can be put to use

As the economy nears of firms start to experience increasing unit cost of production => profit margins are squeezed, 25 tirms try to expand output further. Thus, 25 the price level increase, the amount of additional output forthcoming is small (AS becomes Steep). Why does the tennit cost of production increase when input prices are fixed? There is pressure in the labor market (w/ Nery ten memployed workers) which may hard to increase in overtime pay and br need to pay premium wages to attract add' workers) and

decreesed productive efficiency (production bottle necks, using capital beyond optimal utilization nate, etc.)



Y is determined by both AD+ AS, that is by the level of equil. brium output on the demand side of the economy and firms' willingness to produce at the different possible price levels.

The intersection of AD + AS determine the Plevel and Y level that the economy will achieve.