

Say's Law

- 'supply creates its own demand'
- 'products are paid for with products'
- 'a glut can take place only when there are too many means of production applied to one kind of product and not enough to another'

⇒ every act of production creates income and therefore demand equal to the value of that production

Firm A

↓ Pays \$100

Worker A



Produces \$100
worth of corn

Firm B

↓ Pays \$100

Worker B



Produces \$100
worth of wheat

Cash available
in economy

=

Value of goods
in economy

\$200

\$200

The possibility exists that some income arising from production may not be spent immediately, i.e. saved.

Interest rates are fully flexible to ensure all savings are channelled to investments

If $C \downarrow$, $S \uparrow \Rightarrow \downarrow r$

$\Rightarrow \uparrow I$ equivalent to $\downarrow C$
and vice versa

\Rightarrow Saving cannot cause a decline in spending and thus be responsible for more being produced than can be sold

All sellers are inevitably buyers

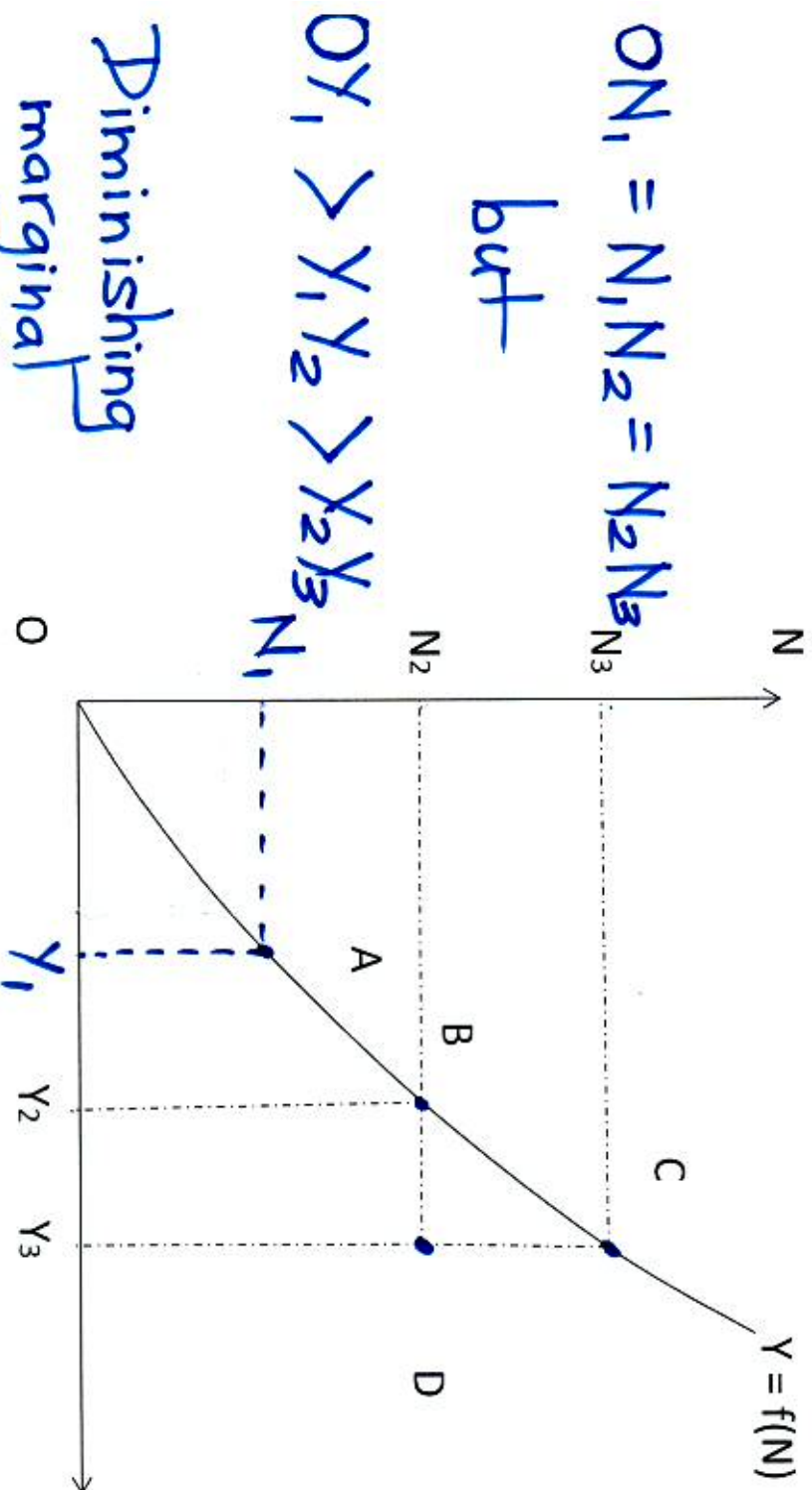
Double productive powers of country

⇒ Double supply of commodities in every market

⇒ Double purchasing power (demand)

⇒ Everybody would be able to buy twice as much, because everyone would have twice as much to offer in exchange.

Diagram 1



$ON_1 = N_1, N_2 = N_2, N_3 = N_3$
 but
 $OY_1 > Y_1, Y_2 > Y_2, Y_3 > Y_3$
 Diminishing
 marginal
 productivity
 of
 labour

Never at D
 as extra output
 would remain
 as unsold stock
 of finished good

Supply of labour (S_N) = no. of workers willing to work at each wage rate

Demand for labour (D_N) = no. of workers that firms are willing to employ at each wage rate

$$\text{Real Wage} = \frac{\text{Nominal wage}}{\text{Price Level}}$$
$$w = \frac{W}{P}$$

$D_N =$ derived demand

$=$ firms pay workers no more than their MRF

$$MRF = MP \times MR$$

$$= MP \times P \quad (P = MR \text{ under perfect competition})$$

$$\therefore W = MP \times P$$

ie.

$$\frac{W}{P} = MP$$

$$w = MP$$

Firms willing to pay workers a real wage equal marginal product of

Diagram 2
 $\uparrow w \Rightarrow \uparrow N$

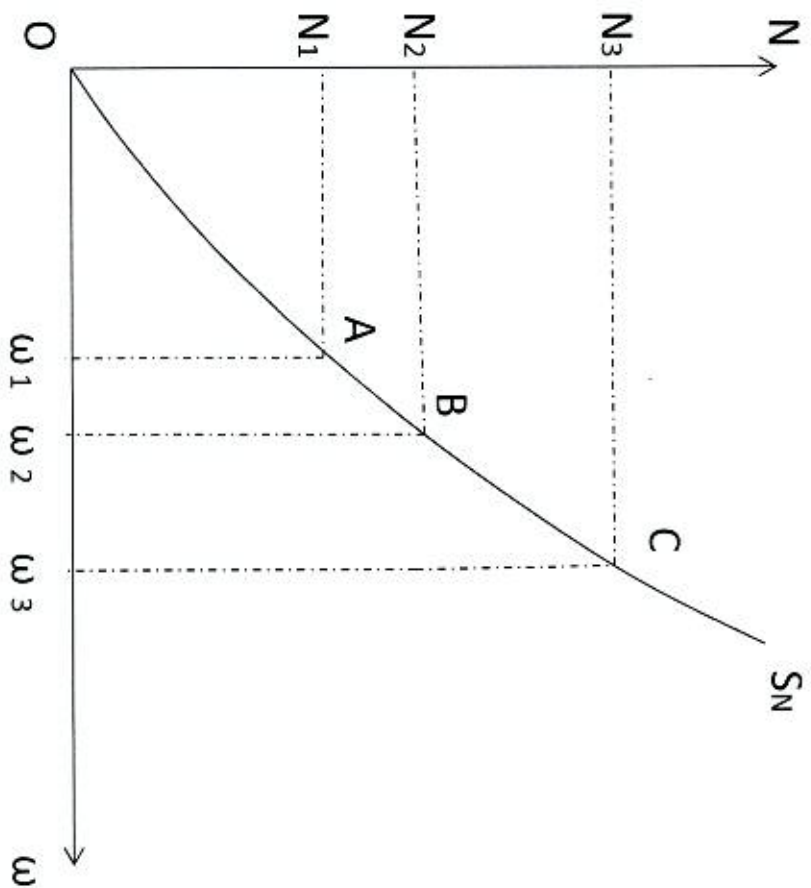
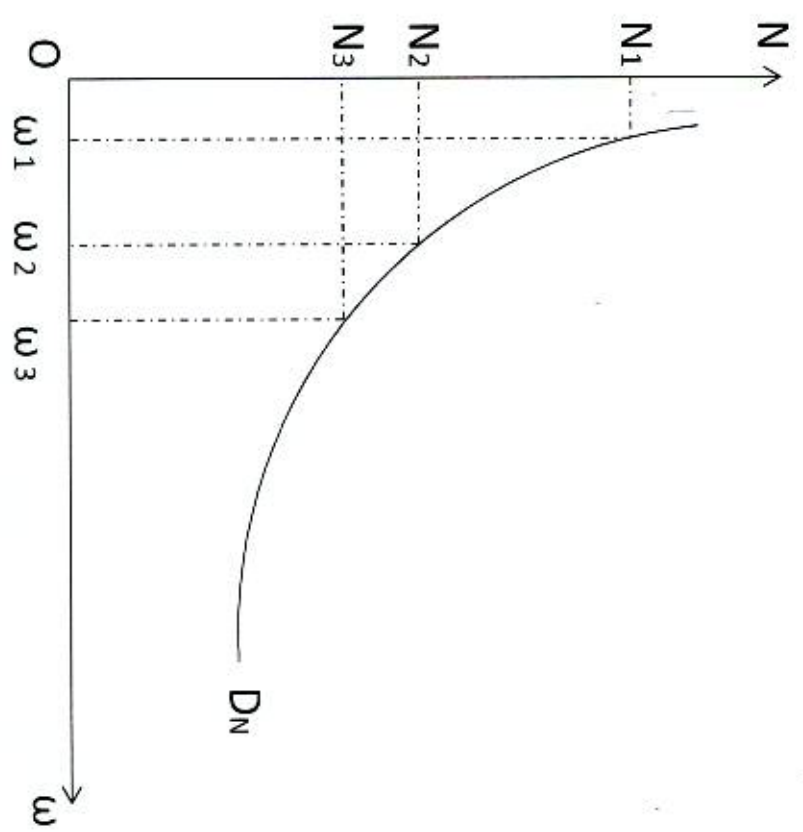


Diagram 3
 $\uparrow w \Rightarrow \downarrow N$



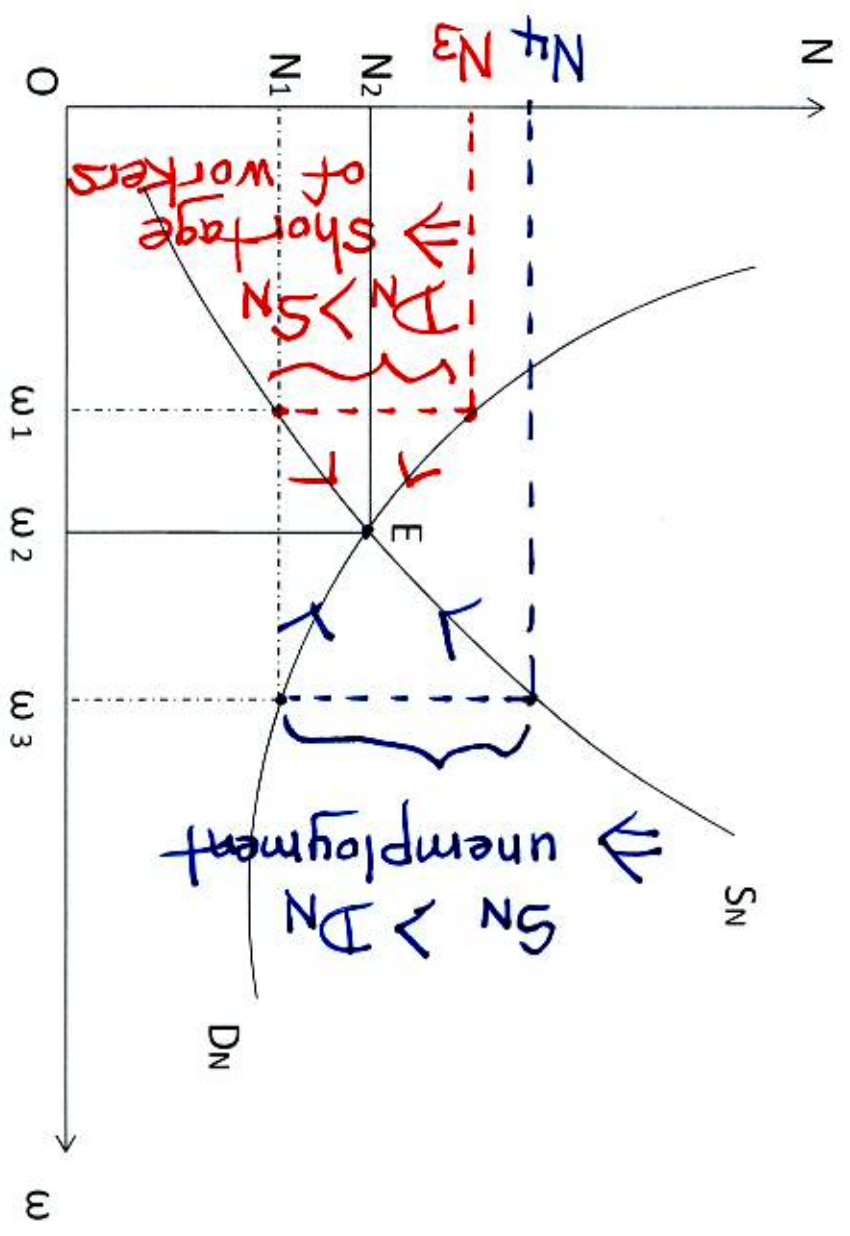
Labour Supply Curve

$\uparrow SN$
 $\downarrow SN$
 $\Rightarrow SN$ shifts up
 $\Rightarrow SN$ shifts down

Labour Demand Curve

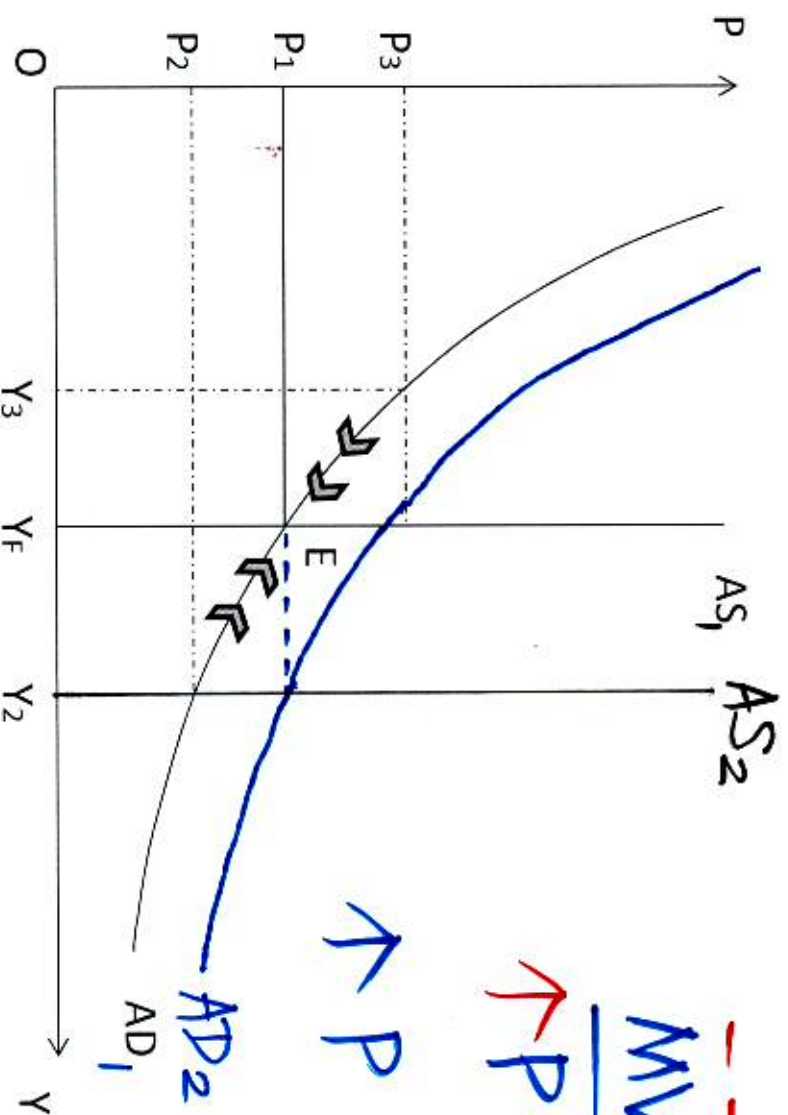
$\uparrow DN$
 $\downarrow DN$
 $\Rightarrow DN$ shifts up
 $\Rightarrow DN$ shifts down

Diagram 4



Labour Market Equilibrium

Diagram 5



$$MV = PY$$

$$\frac{\overline{MV}}{\overline{P}} = Y \downarrow$$

$\uparrow P \Rightarrow$ Buy less given fixed M and V
 $\Rightarrow \downarrow Y$

Aggregate Demand and Aggregate Supply

() ()
 $\uparrow M \Rightarrow AD$ shifts right

At each P , $Y \uparrow$

Real wages are flexible and
adjusts instantaneously to
clear labour market

$\Rightarrow AS$ vertical, always at full employment
 Y_f

Economic agents do not suffer from money illusion

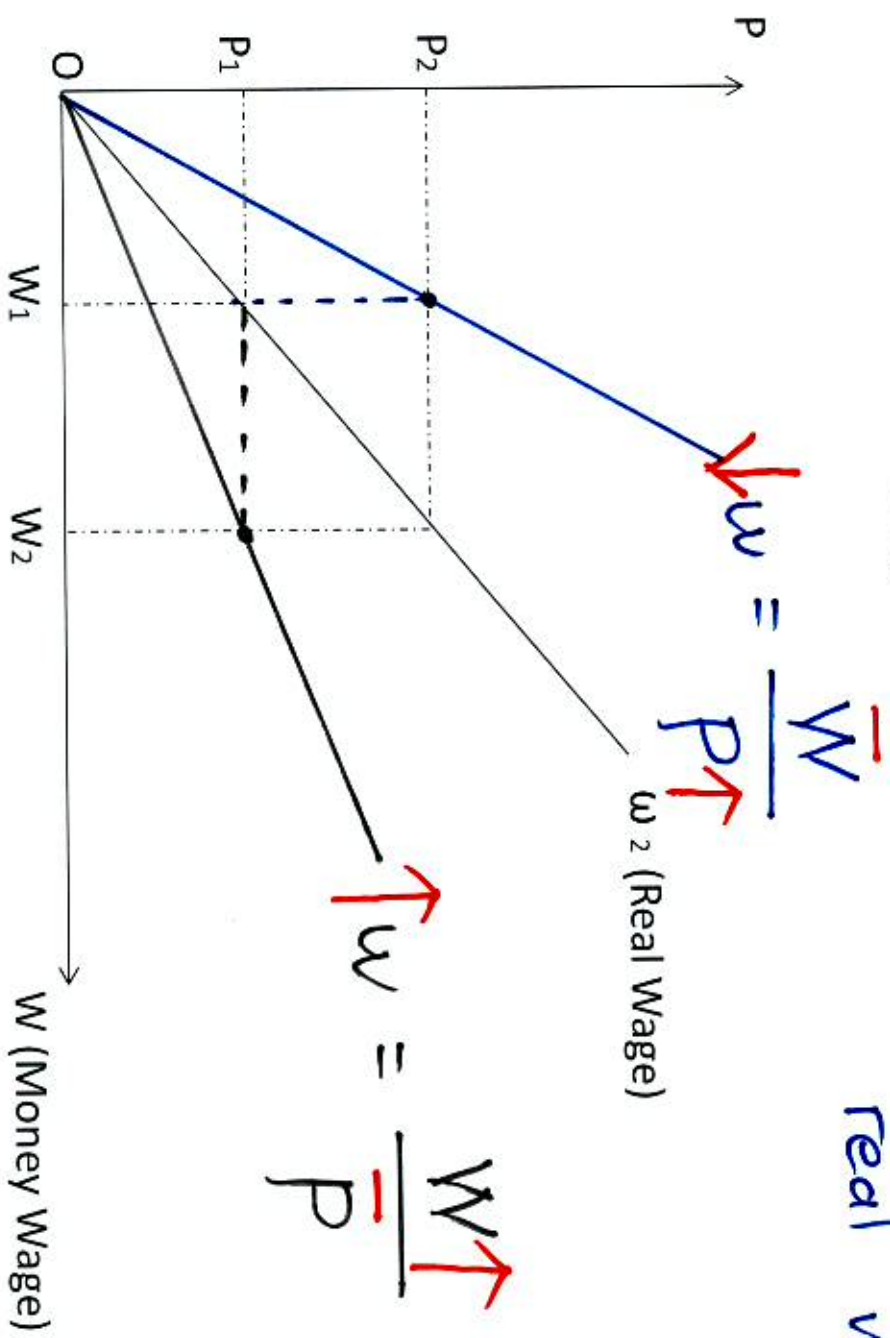
$\uparrow P \Rightarrow$ workers demand

for higher money wage ($\uparrow W$)

\Rightarrow no change in real wage, w

$\frac{1}{\text{slope}}$ measures real wage

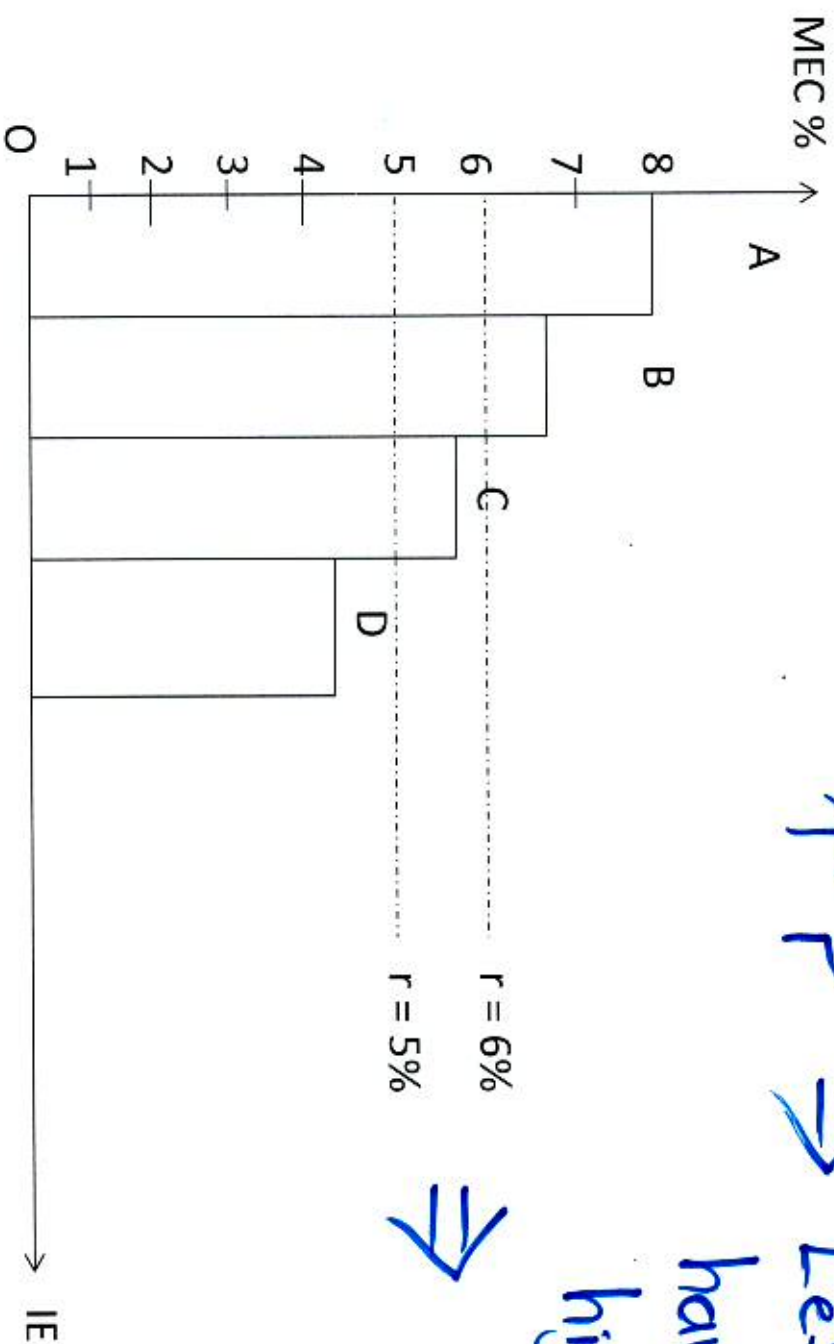
Diagram 6



Money Wage Determination

- ↓ w ⇒ real wage line pivots left (steeper)
- ↑ w ⇒ real wage line pivots right (flatter)

Diagram 8

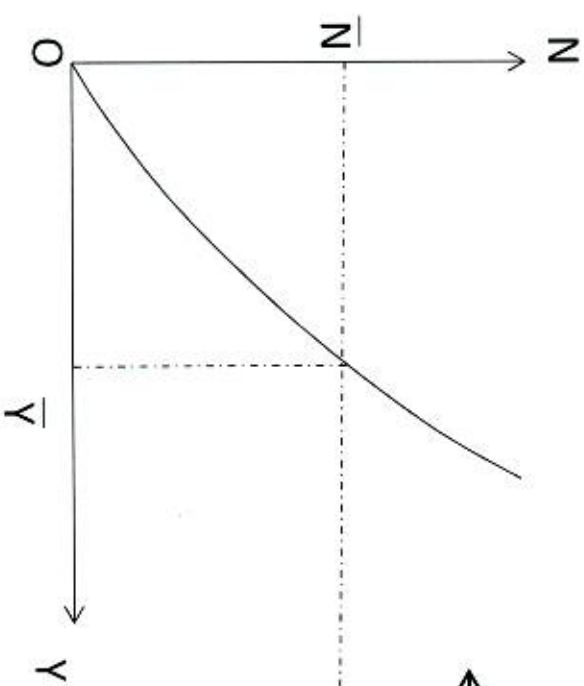


$\uparrow r \Rightarrow$ Less investments
have MEC
higher than r
 $\Rightarrow \downarrow I$

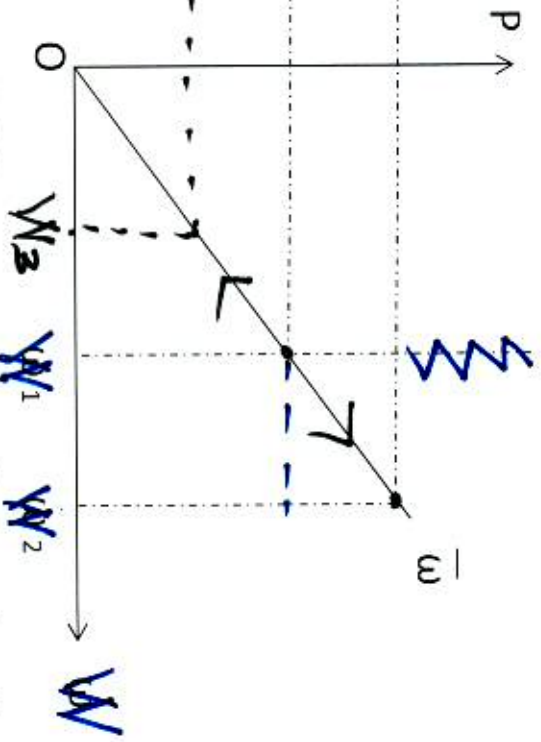
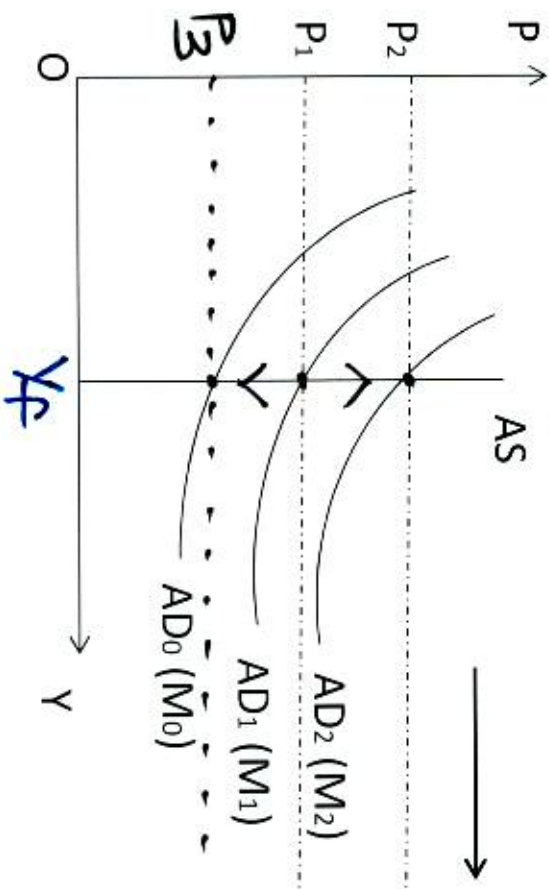
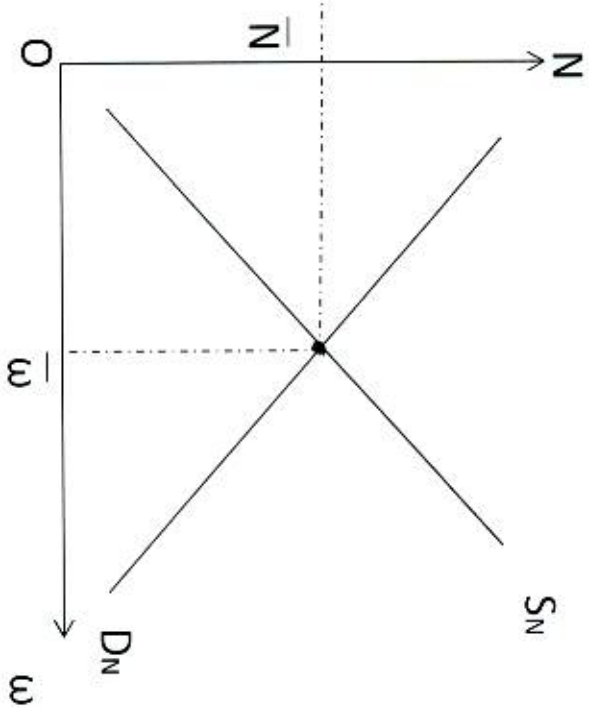
Ranking of Investment Projects

Diagram 9

2. Production Function



1. Labour Market



3. AS – AD Curves

4. Money – wage Determination

Policy Implications of the Classical Model

1. Demand management policy is both ineffective and unnecessary

(a) Monetary Policy

↑ money supply (M) \Rightarrow AD shifts right

Given vertical AS at full employment

output level

$\Rightarrow P \uparrow$ without change in Y

$\Rightarrow W \uparrow$ without change in w

Monetary policy can affect the price level and nominal variables, like the nominal wage, but cannot affect real variables such as real output, employment or real wage.

Countries cannot "print" themselves to prosperity

Money in Hyperinflations

	<u>Inflation rate</u> (monthly)	<u>Money growth rate</u> (monthly)
Germany (1922-1923)	322%	314%
Greece (1943-1944)	365%	220%
Hungary (1945-1946)	19,800%	12,200%
Poland (1923-1924)	81%	72%
Zimbabwe (2006)	1,730%	

(b) Fiscal Policy

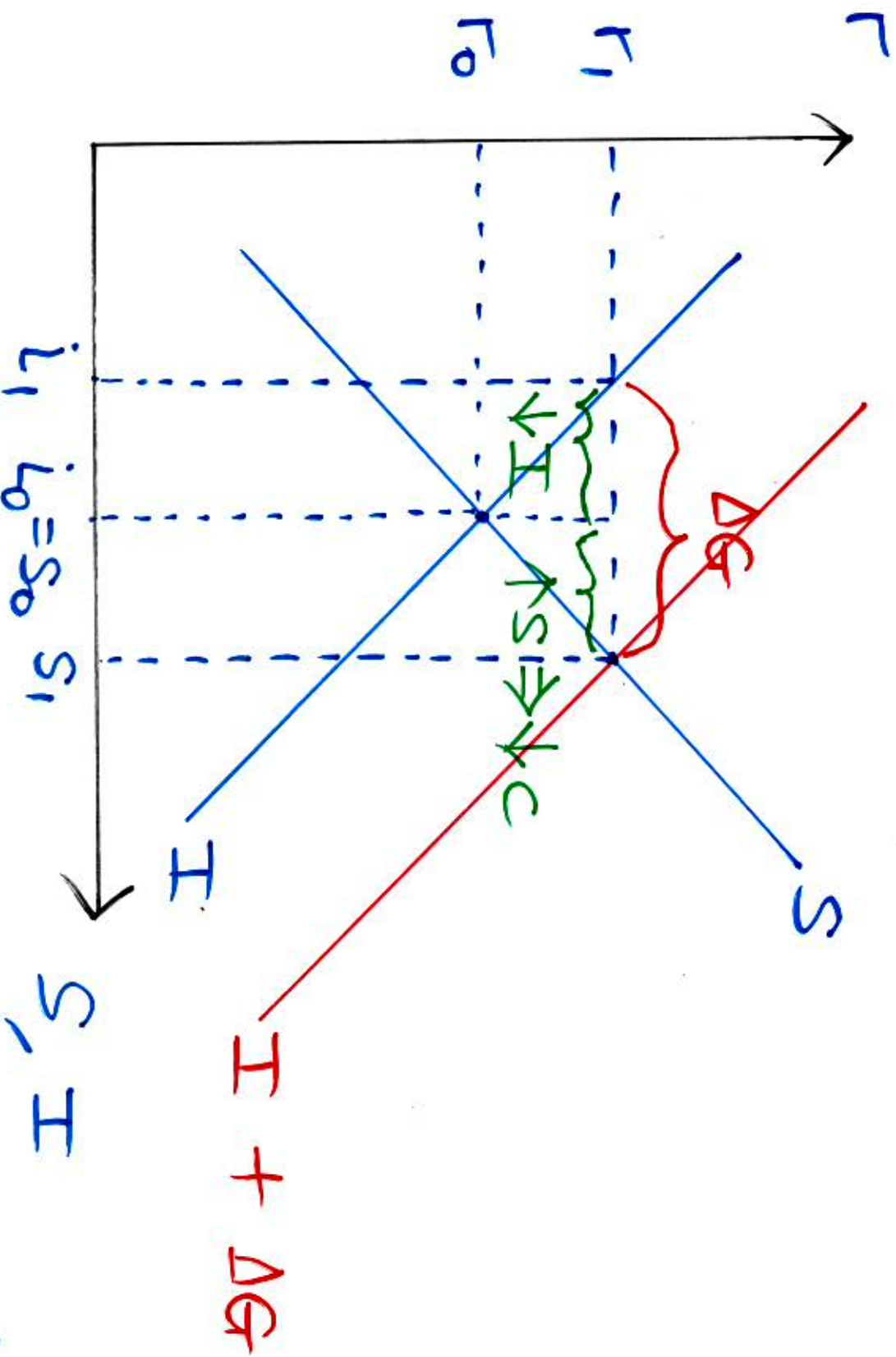
Government can increase spending by

(i) \uparrow taxation

(ii) Borrowing from public (sell bonds to public)

(iii) Printing money $\Rightarrow \uparrow M$

\uparrow taxation $\Rightarrow \downarrow C$, $\downarrow S \Rightarrow \downarrow I$
 \Rightarrow offset $\uparrow G$



↑ G financed by selling bonds

⇒ ↑ r ⇒

crowds out equal amount of C and I

2. Supply is key to Economic Growth

Higher level of real output is a
'supply-side' issue and demand stimulus
won't work.

↑ technology

↑ SN (influx of immigrants)

↑ capital

Relevance to current labour market policy debate :

Minimum wage

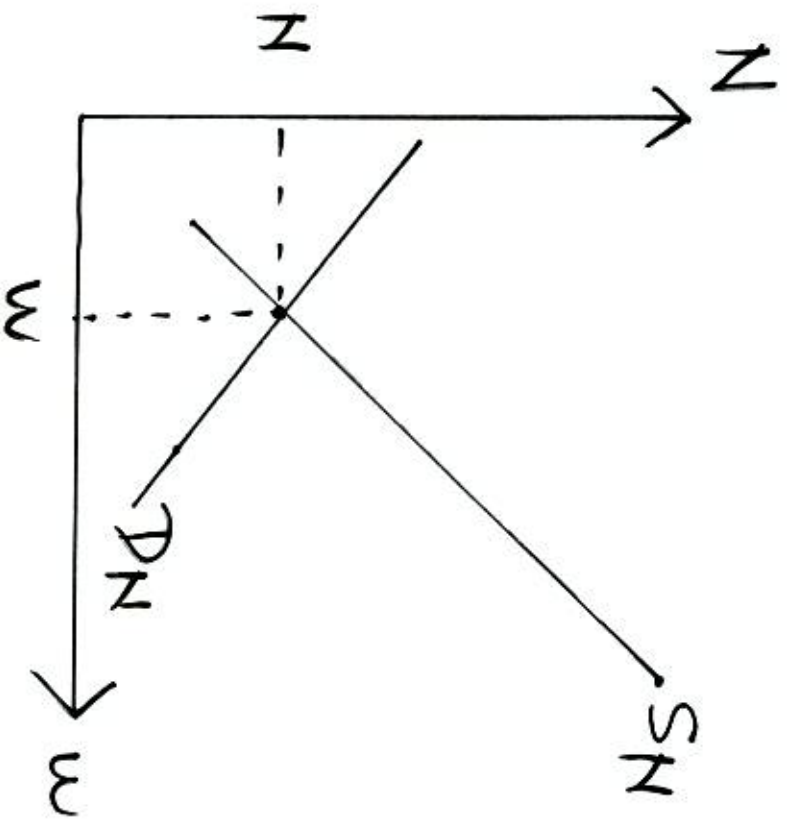
Strong unions

Unemployment insurance laws

Labour training policies

All unemployment is 'voluntary'
- workers choose to remain unemployed

If MP_L is very low, demand for labour is low
 \Rightarrow real wage is low



'Voluntary' unemployment
does not mean it's
not painful

Great Depression (1929 - 1939)

Money wages and prices proved to be extremely flexible downward during the collapse (1929 - 1933) but this flexibility did not prevent output and employment from dropping sharply.

Also, the Federal Reserve discount rate declined by 83.7% but gross private domestic investment spending collapsed almost totally.

Set the stage for the Keynesian model in 1936