

-:

" Economics

"

:

(101)

Micro-economics

Firm

Household

J.M.Keynes "

"

(1883-1946)

.

.  
(  
)

)

" "

( Economic Table

"

"

.( ) Say's Law

"

"

.( )

.( ) " "

-: ( )

-

-

-

-

-:

---

## Economic Theory

"

"

-:

Definitions

-

Assumptions

-

Hypotheses

-

" Economic Policy

"

-

-:

-

-

-

-

-:

" Aggregate Demand

" Aggregate Supply

"

Equilibrium

"

.Inflation

.Depression

Flow ( )

:-

"

"

Stock

"

"

Wealth

"

"

Income

"

"

:-

Ex-post

"

Expectant

"

"

"

"

"

Planned

"

:-

Experimentation

(Econometrics )

" Economic Model

( )

"

"

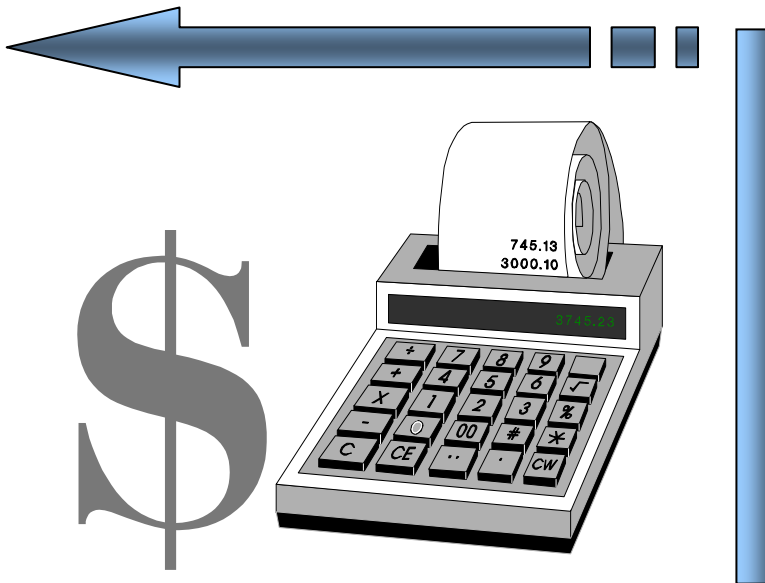
"

Mathematical Models

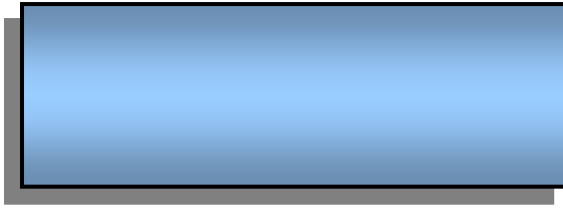
.Econometric Models

Model Building









-:

Circular "

"

Flows of Income

.(

)

)

(

Producers Sector

Households Sector

-:

.

-

.

-

.

.

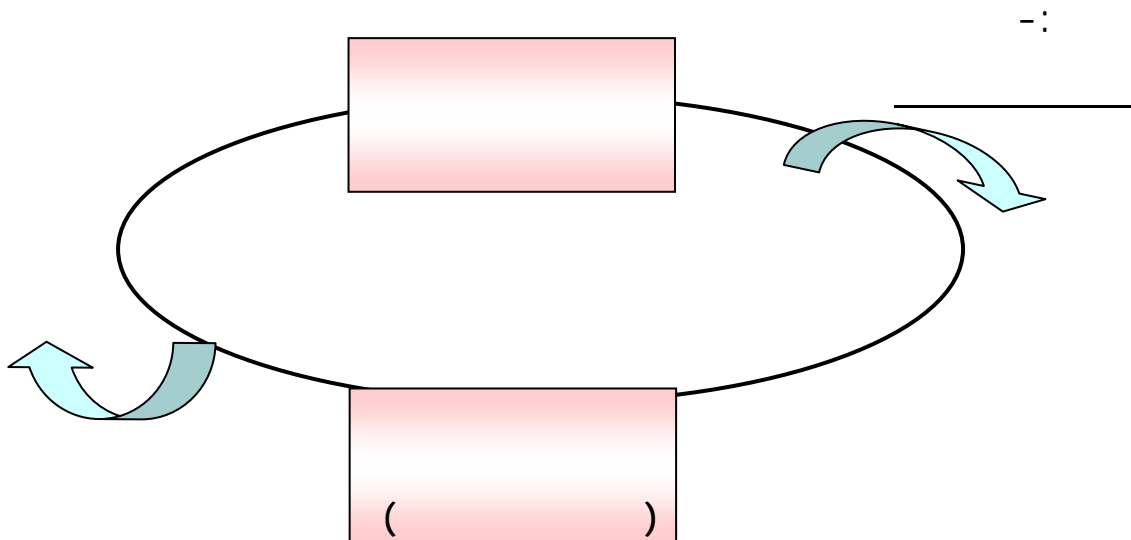
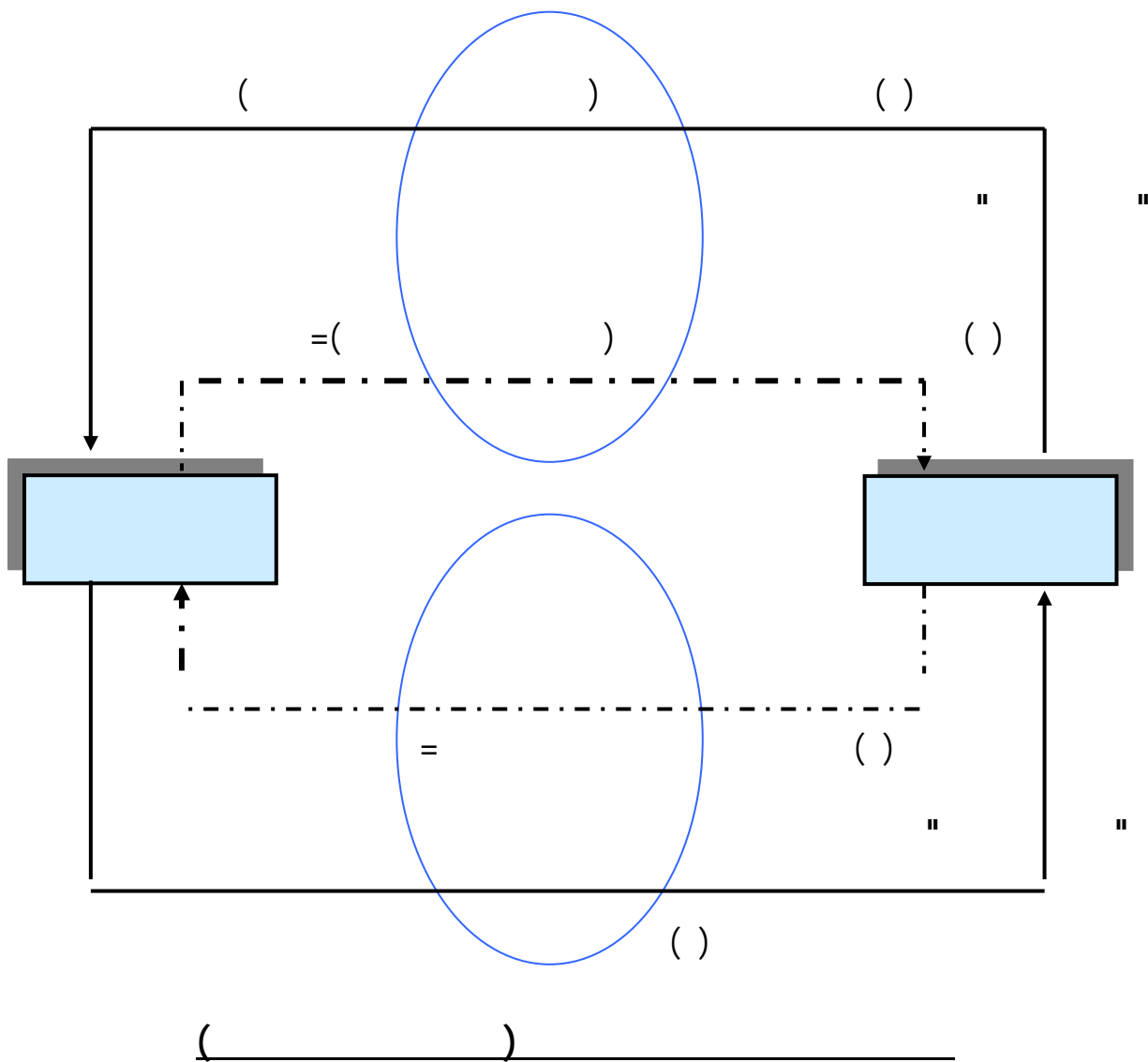
-

-

"

"

.

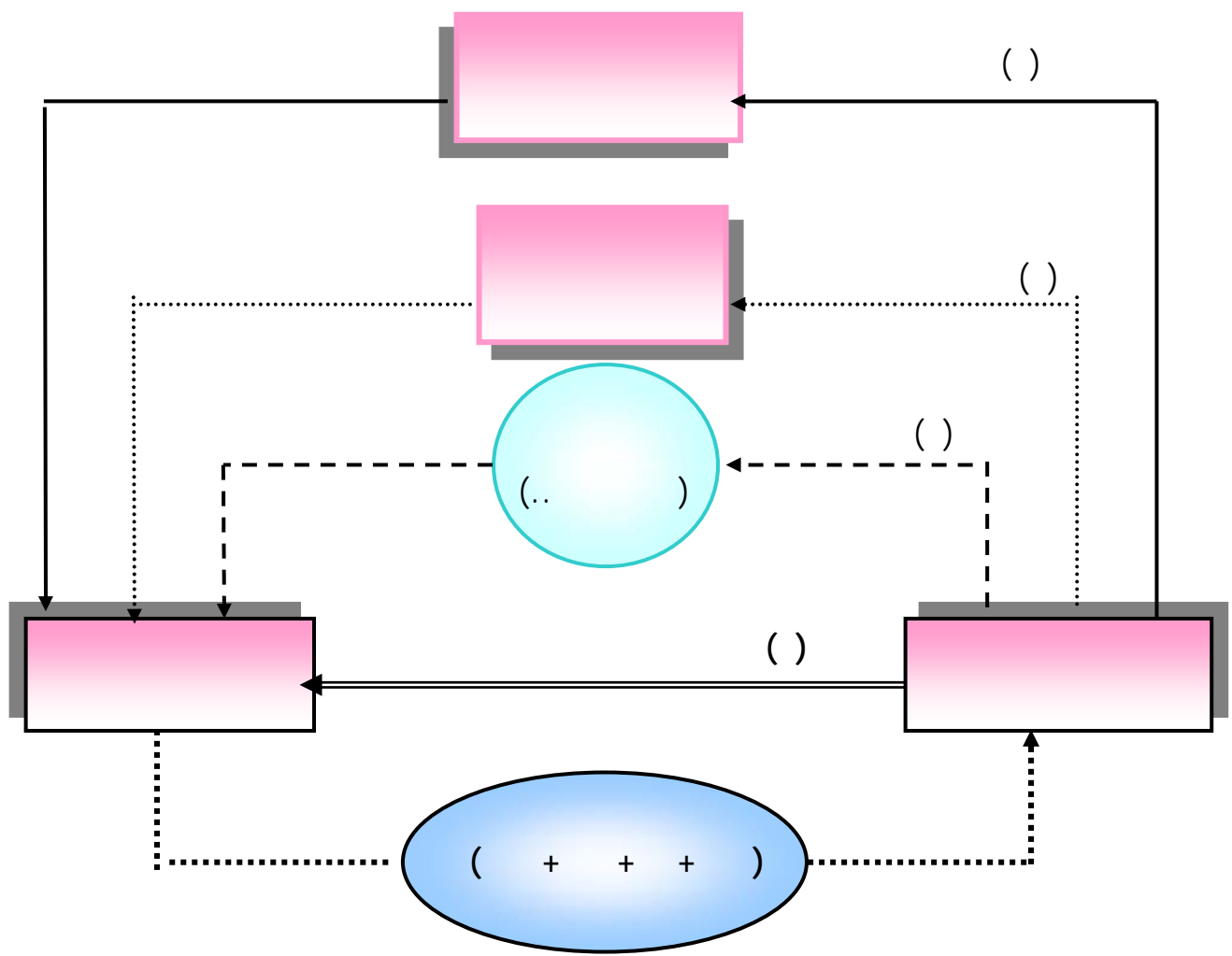


يوضح الشكل اللاحق التدفقات الدائرية للدخل في حالة القطاعات الأربعة، والذي يتلخص فيما يلي:-

" National Income

" National Income "

" .  
 " Total Expenditure  
 - :  
 " .  
 .( ) -  
 .( ) -  
 . -  
 . -




---

- :-

-

-

- :-

-

.

- :-

.

...

---

Nonmarket

"

Transaction

"  
.

-

-

Transfer Payments

-

.

"

)

"(

.

-

..

)

.(

.

( )

.

.

= + + =

)

-:

: \_\_\_\_\_ -

.(

" Added Value

: \_\_\_\_\_ -

"

-:

- =

	--		

( )

( )

( )

( )



---			
		---	
---	---		
---			
---			



)

(

-:

-: \_\_\_\_\_

يتمثل الإنفاق الاستهلاكي في "مجموع القيم النقدية للسلع النهائية و الخدمات التي يستهلكها الأفراد"، و يشتمل على ما ينفقه القطاع العائلي من سلع معمرة كسواء سيارة أو ثلاجة أو أثاث و غيره، و سلع غير معمرة كمختلف السلع الاستهلاكية، هذا إضافة إلى الخدمات المختلفة كخدمات الطبيب و المعلم و المهندس و الكهربائي.. و غيرها.

-: \_\_\_\_\_

( )

"

"

-:

-

-

\*) :

.(

-

$$. ( ) + =$$

-: \_\_\_\_\_

يتمثل الإنفاق الحكومي في مجموع القيم النقدية للسلع أو الخدمات الاستهلاكية والاستثمارية التي تشتريها الحكومة، وتشمل جميع مشتريات الحكومة من سلع مختلفة وخدمات، إضافة إلى نفقاتها على بناء المدارس والمستشفيات والطرق والمشروعات الاستثمارية و الأجور والمرتبات .. إلخ. أما مدفوعات التحويلات فطالما أنها لا تمثل مساهمة من المنتفعين بها في الناتج ولا تعكس أي إنتاج جاري فإنها لا تدخل ضمن الإنفاق الحكومي.

-: \_\_\_\_\_

"

"

-:

$$- =$$

-:

$$+ + =$$

+

-

" National Income

"

- :

: \_\_\_\_\_ -

" Wages

"

Proffits

: \_\_\_\_\_ -

- :

: -

: -

- :

" : \*

"

" : \*

"

" : \*

:-

" Rent

"

:-

" Interest

"

:-

. + + + = ( )

\_\_\_\_\_  
( )

:-

. - . + =  
+ =

-:

١- الناتج القومي الإجمالي (GNP) = الإنفاق الاستهلاكي + الإنفاق الاستثماري + الإنفاق الحكومي + صافي الصادرات.

$$\begin{array}{r} \cdot \\ \cdot \\ \cdot \end{array} \quad \begin{array}{r} - \\ + \\ - \end{array} \quad \begin{array}{r} = \text{(GDP)} \\ = \\ = \end{array} \quad \begin{array}{r} - \\ \\ - \end{array}$$

$$\begin{array}{r} \cdot \\ \cdot \\ \cdot \end{array} \quad \begin{array}{r} - \\ + \\ - \end{array} \quad \begin{array}{r} = \text{(NNP)} \\ \\ = \end{array} \quad \begin{array}{r} - \\ \\ - \end{array}$$

.( )

$$\begin{array}{r} \cdot \\ \cdot \\ \cdot \end{array} \quad \begin{array}{r} + \\ - \\ + \end{array} \quad \begin{array}{r} = \\ = \\ = \end{array} \quad \begin{array}{r} - \\ \\ - \end{array}$$

-:

$$\begin{array}{r} \cdot \\ \cdot \\ \cdot \end{array} \quad \begin{array}{r} + \\ + \\ + \end{array} \quad \begin{array}{r} = \\ = \\ = \end{array} \quad \begin{array}{r} - \\ \\ - \end{array}$$

**:Personal Income** -

"

"

$$\begin{array}{r} - \\ - \\ = \end{array}$$

$$\begin{array}{r} \cdot \\ \cdot \\ \cdot \end{array} \quad \begin{array}{r} + \\ - \\ + \end{array} \quad \begin{array}{r} = \\ = \\ = \end{array} \quad \begin{array}{r} - \\ \\ - \end{array}$$

**:Disposable Income** -

"

Income Taxes

-:

$$\begin{array}{r} \cdot \\ \cdot \\ \cdot \end{array} \quad \begin{array}{r} - \\ - \\ = \end{array}$$

"

"

: Savings

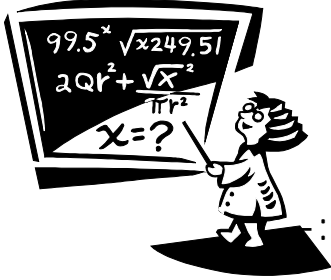
-

"

"

-

=



( )


-:

-

-

-

-

( )

-:



-: - -

- -

( )

في دولة تقوم على إنتاج سلعة واحدة فقط كانت بيانات حسابات الدخل القومي على النحو التالي (بالمليون ريال):-

١٢٠	صادرات	٣٠	إعانات إنتاج	٥	كمية الإنتاج (مليون وحدة)
١٠٠	واردات	٥٠	أرباح محتجزة	١٢٠	سعر الوحدة (ريال)
٩٠	ربح	٢٠	ضرائب أرباح	٢٠٠	إنفاق العائلات
٧٠	فائدة	٨٠	أرباح الأسهم	١٧٠	أجور و مرتبات
٩٠	دخل ملاك	٢٠٠	نفقات الحكومة	١٨٠	استثمار إجمالي
		٢٠	اهلاك رأس المال	٤٠	ضرائب غير مباشرة

-:

-

-

-

-

-

-

-

- :

-

-

-

:

-

-

.



!

-:

---

Deflate

Inflate

"

Price Index "

"هي الأرقام التي تقيس التغير في الأسعار خلال فترة زمنية معينة بهدف رصد التغيرات في أسعار السلع المختلفة وتقدير تلك التغيرات في المتوسط خلال فترة زمنية معينة".

%

×

=

-:

( )	( )	

-:

$$\% = \% \times = ( )$$

$$\% = \% \times = ( )$$

-:

$$\% = , = ' = ' + ' =$$

%

$$( - ) \%$$

.%

:

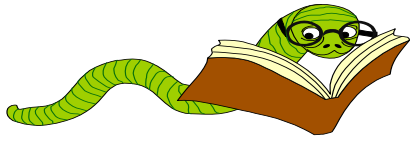
-:

. = ÷ =  
= , ÷ =

( - )

( - )

( - )

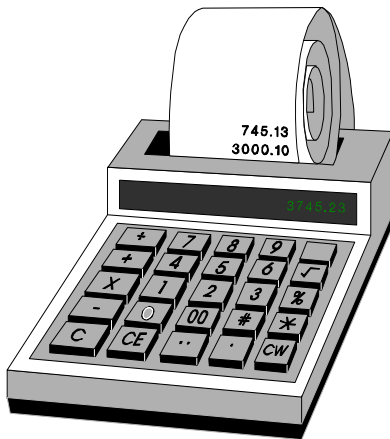


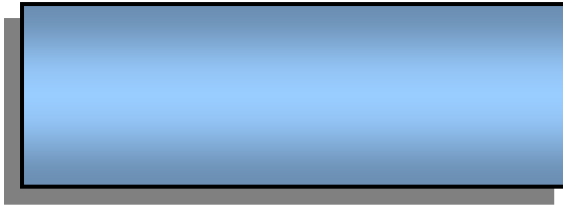
( )


( )

( )	( )	( )	( )	( )	( )	







-:

Circular "

"

Flows of Income

.(

)

)

(

Producers Sector

Households Sector

-:

.

-

.

-

.

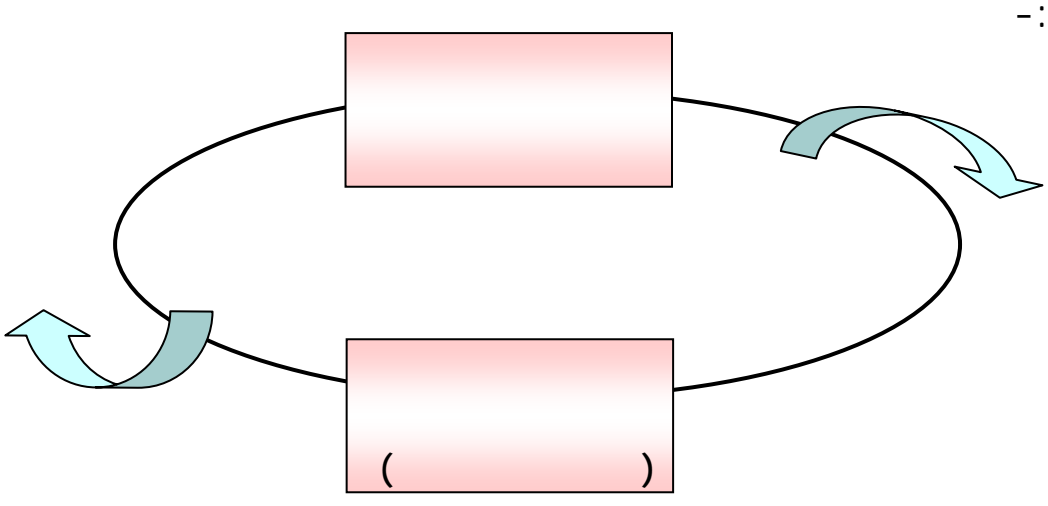
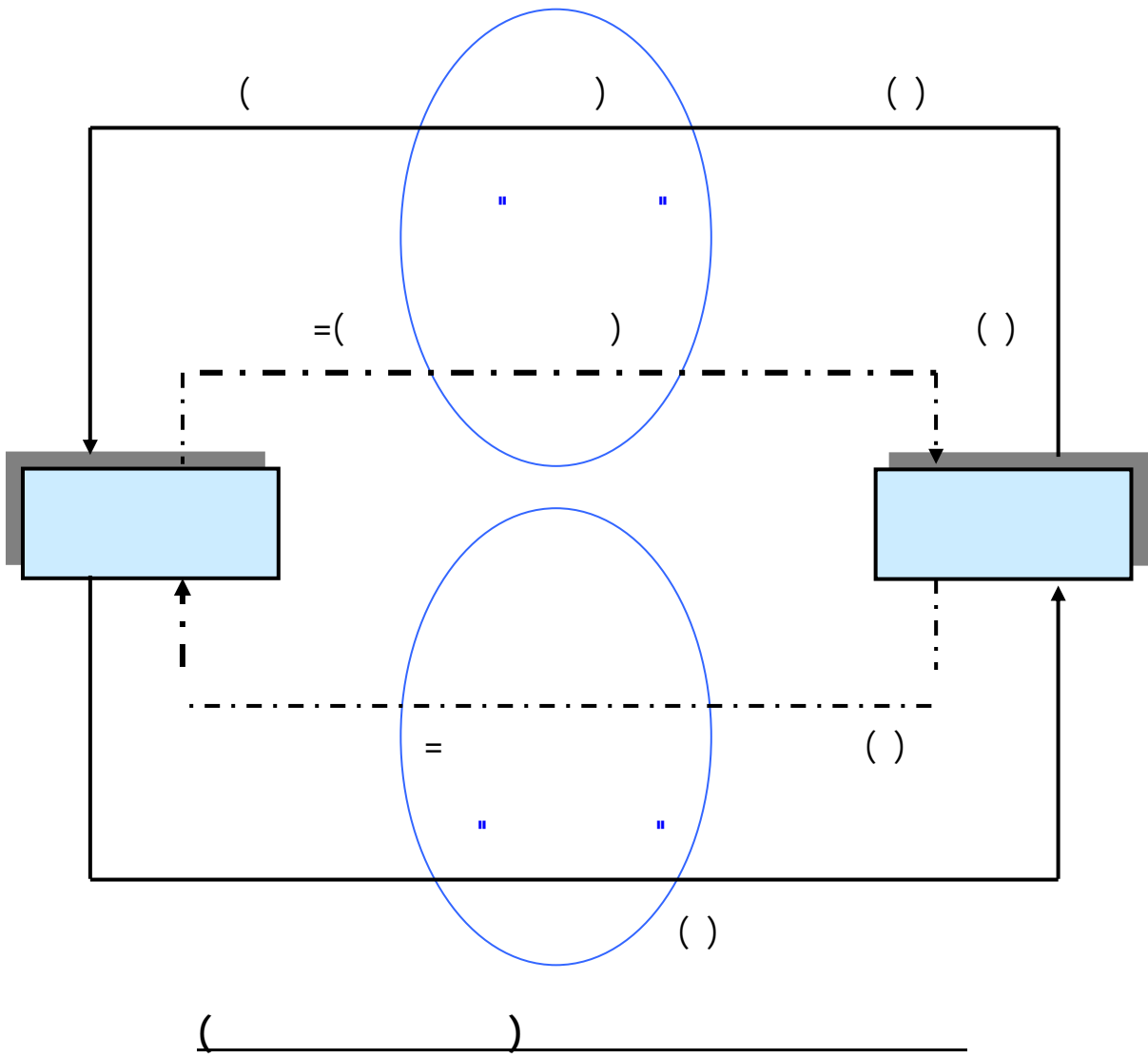
.

-

-

.

"



..

.

.

-:

-

.

-

.

-

.

.

-

.

" National Income

" National Income

."

."

Total Expenditure

-:

"

"

.( )

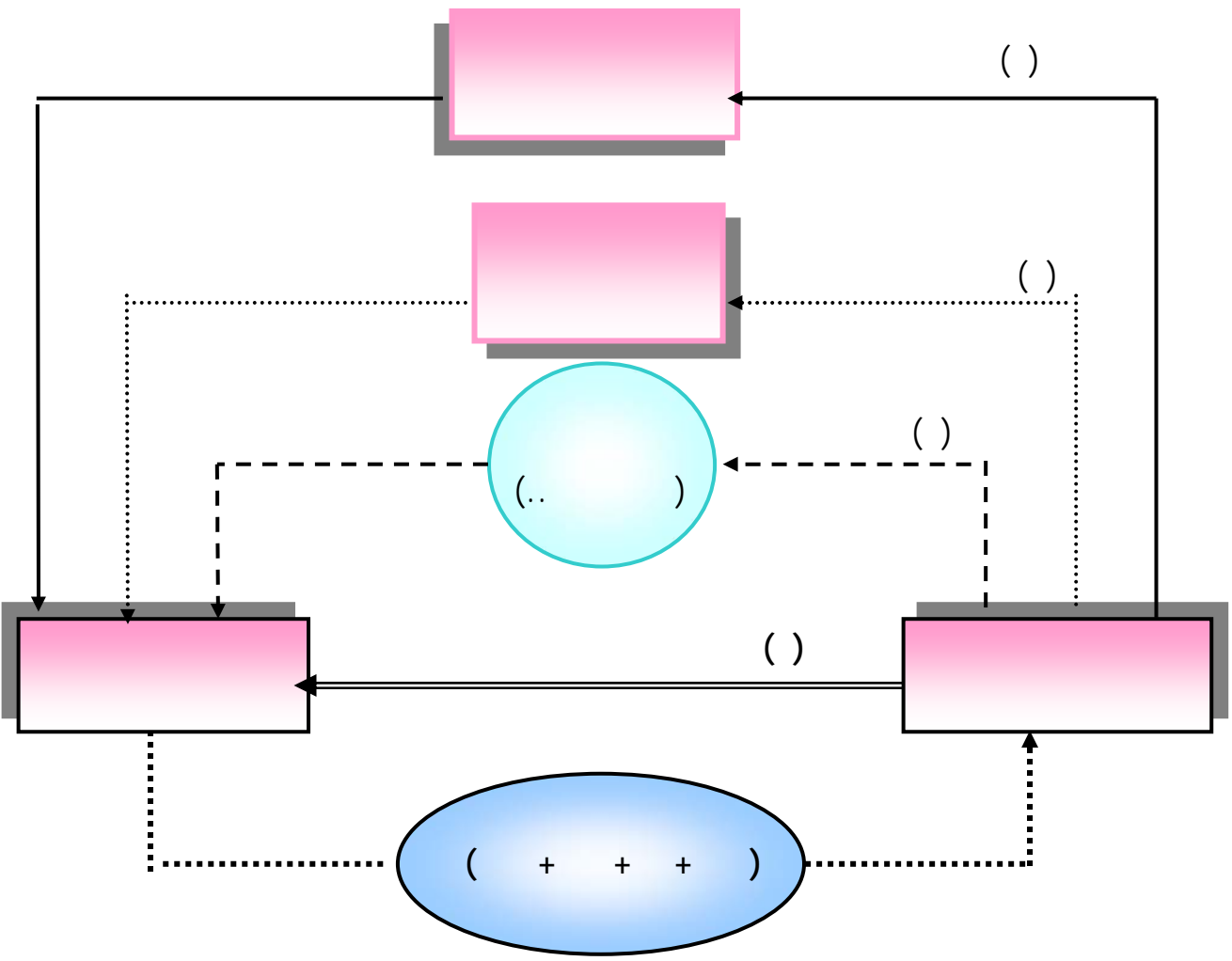
.( )

-

-

-

-



---



- :-

-

-

- :-

-

.

- :-

.

...



Nonmarket

" Transaction

"

-

-

.

.

Transfer Payments

-

.

"

)

"(

.

-

..

)

.(

.

( )

.

.

= + + =

)

-:

: \_\_\_\_\_ -

.(

" Added Value

: \_\_\_\_\_ -

"

-:

- =

	--		

( )

( )

( )

( )



---			
		---	
---	---		
---			
---			

)

(

-:

-: \_\_\_\_\_ -

"

"

-: \_\_\_\_\_ -

"

( )

"

-:

-

-

: \*)

.(

-

.  
 .( ) + =  
 - : \_\_\_\_\_ -

. ..

"

.  
 - : \_\_\_\_\_ -

"  
 .

.

- :

. - =

- :

+ + =

. +

-

" National Income

"

.

.

-:

: \_\_\_\_\_ -

" Wages

"

.

.

.

: \_\_\_\_\_ -

Proffits

-:

: -  
 : -  
 - :  
 " : \*  
 " . "  
 " : \*  
 " . "  
 " : \*  
 " : \*

: -  
 " Rent

"

: -  
 " Interest

"

- :

. + + + = ( )

\_\_\_\_\_  
 ( )



$$\begin{aligned}
 & - \\
 & \cdot \quad - \quad + \quad = \\
 & \quad \cdot \quad + \quad =
 \end{aligned}$$

-: \_\_\_\_\_

$$\begin{aligned}
 & + \quad + \quad =(\text{GNP}) \quad - \\
 & \quad \cdot \quad +
 \end{aligned}$$

$$\begin{aligned}
 & \cdot \quad - \quad = (\text{GDP}) \quad - \\
 & \quad + \quad =
 \end{aligned}$$

$$\cdot \quad -$$

$$\begin{aligned}
 & - \quad = ( \quad ) (\text{NNP}) \quad - \\
 & \cdot ( \quad )
 \end{aligned}$$

$$\begin{aligned}
 & \quad = \quad - \\
 & \cdot \quad + \quad - ( \quad ) \quad =
 \end{aligned}$$

$$\begin{aligned}
 & -: \\
 & \cdot \quad + \quad + \quad + \quad =
 \end{aligned}$$

**:Personal Income** -

"

"

$$\begin{aligned}
 & - \quad - \quad = \\
 & \cdot \quad + \quad -
 \end{aligned}$$

" **:Disposable Income** -

"

# Income Taxes

-:

"

- =

"

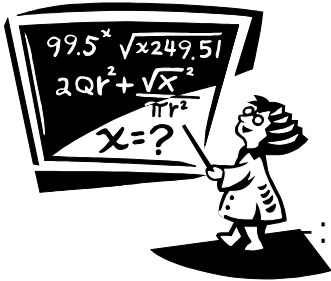
: Savings

-

"

"

- =



( )


-:

-

-

-

-

( )

-:


- - -:

. - -

( )

-:( )

					( )
					( )

-:

. - - -

-

-

-

-

- :

-

-

-

:

-

\_\_\_\_\_

Deflate

Inflate

Price Index "

%

×

=

.

-:

( )	( )	

-:

$$\% = \% \times = ( )$$

$$\% = \% \times = ( )$$

-:

$$\% = , = ' = ' + ' =$$

%

$$( - )\%$$

.

.%

:

.

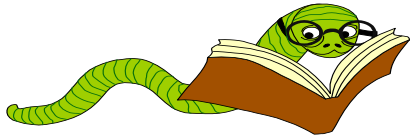
$$-: = \div =$$

$$. = , \div =$$

( - )

( - )

( - )

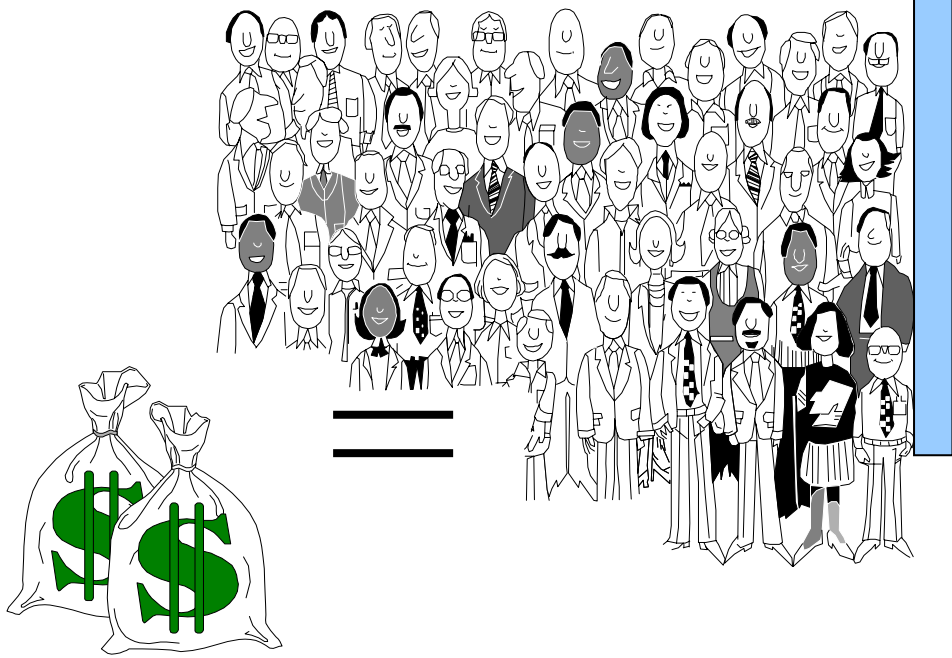


( )


( )

( )	( )	( )	( )	( )	( )	









. Full Employment "

"

"

"

"

**Stagflation "**

"

- :

-

"

"

-

.

-

.

)

.(

-

.

\_\_\_\_\_

)

-:

\_\_\_\_\_

-

.(

-

Say's Law

.

"Every Supply Creates "

"

.Its Demand"

/

( )

-

.

"

"

"

"

# General Theory of Employment, Interest, and Money

.

.

.

-:

-:

-

---

)

.

.( ..

.( )

-: -

-: -





" Consumption Function "

( )

-:

+ =

-:

:

( )

:

:

{

:

:

$$C + S = Y$$

where  $C$  is consumption and  $S$  is saving.

(...)

### Average Propensity to Consume

-:

$$APC = \frac{C}{Y}$$

### Average Propensity to Save

-: (...)

$$APS = \frac{S}{Y}$$

$$APC + APS = \frac{C}{Y} + \frac{S}{Y} = \frac{C + S}{Y} = \frac{Y}{Y} = 1$$

=

=

**Marginal**

.

"

**Propensity to Consume**

-: ( . . ) "

$$\frac{\Delta}{\Delta} = \dots = ( . . )$$

" **Marginal Propensity to Save**

-: ( . . ) "

$$\frac{\Delta}{\Delta} = \dots = ( . . )$$

( - )

-:

$$= \frac{\Delta}{\Delta} = \frac{\Delta + \Delta}{\Delta} = \frac{\Delta}{\Delta} + \frac{\Delta}{\Delta} = \dots + \dots$$

-:

.

( - ) + - =

-:

, + - = ← ( , - ) + - =



..	..	..	..			
-	-	-	-	-		
/	/	/ -	/	-		
/	/	/ -	/	-		
/	/	/ -	/	-		
/	/	/ -	/	-		
/	/					
/	/	/	/			
/	/	/	/			
/	/	/	/			

.

. =

.

= =

.

---

-:

+ = :

( )

. =

( )

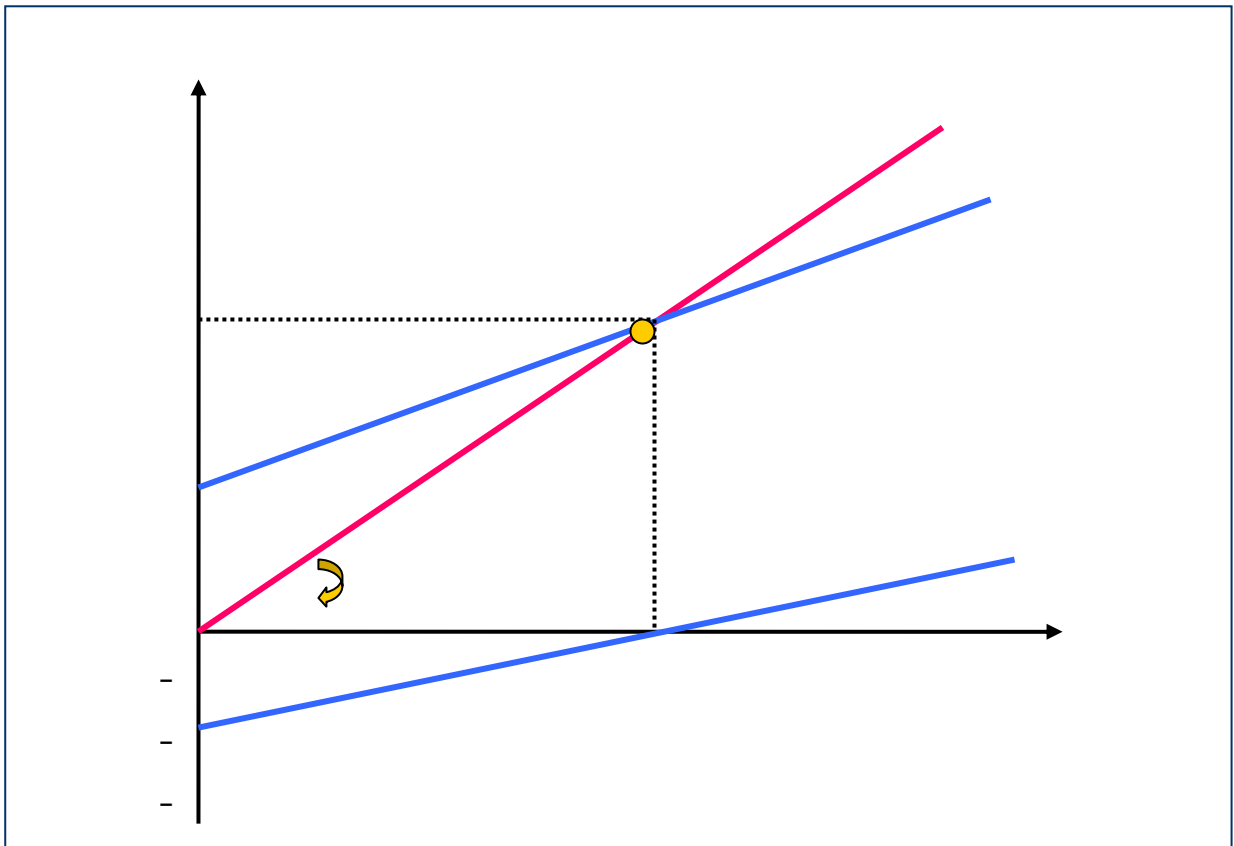
-:

$$\begin{aligned} \Delta &= \dots \\ \Delta &= \dots \end{aligned}$$

-:

$$, = = - = \dots$$

$$, + = :$$



=

( -)

-:

$$, = = ( - ) - = \dots$$

$$, + - = :$$

---

$$, + = : \underline{\hspace{2cm}} -$$

$$=$$

$$= , - \leftarrow , + = -:$$

$$= \leftarrow , \div = \leftarrow = ,$$

$$, + - = : \underline{\hspace{2cm}} -$$

$$-:$$

$$= \leftarrow , \div = \leftarrow = , \leftarrow , + - =$$

( )



$$-: , + = :$$

$$\dots$$

..	..	..	..			

( )

, + = :

-:

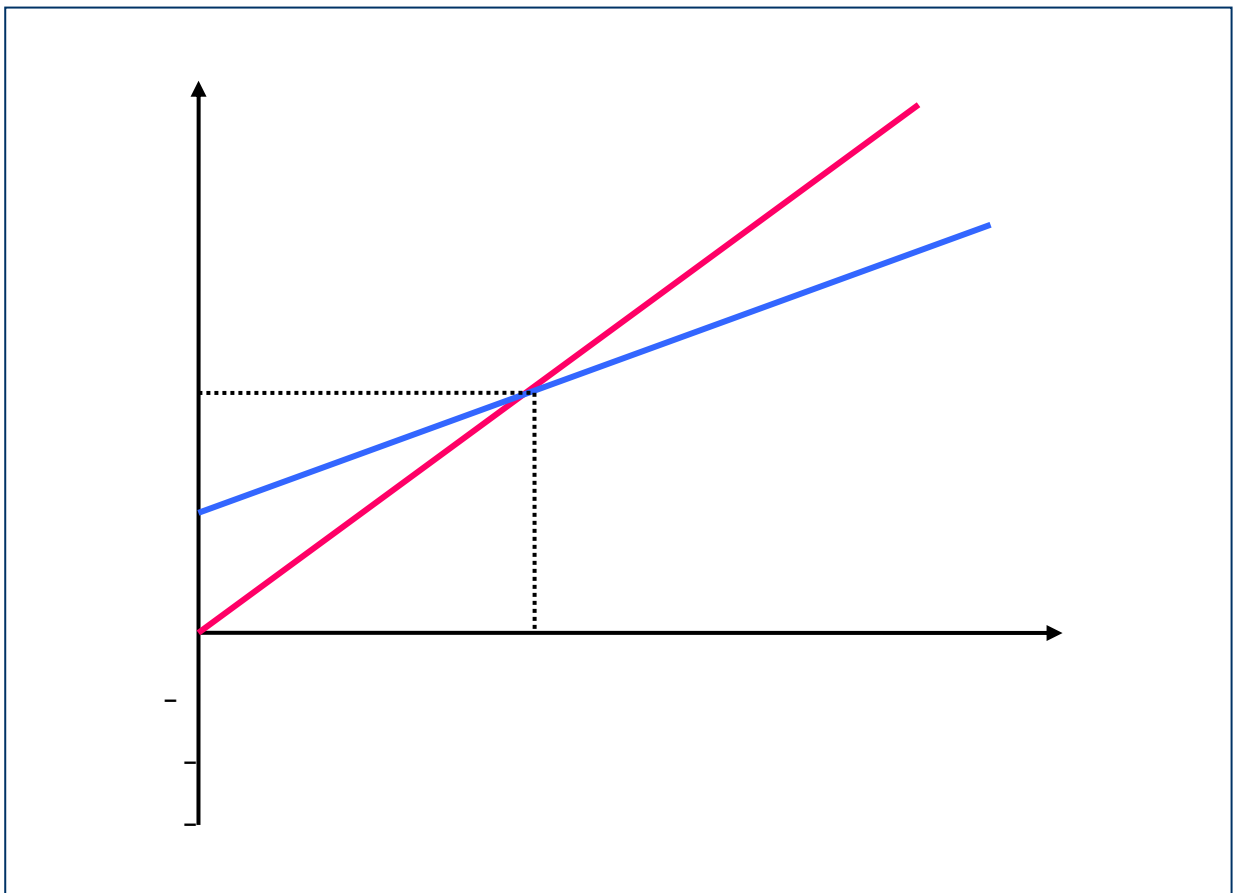
( )

-:

-

-

-



— :

— : —

— : —

— : —

\_\_\_\_\_

\_\_\_\_\_

)

(

\_\_\_\_\_

\_\_\_\_\_

**Money Illouision\_\_\_\_\_**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

( )



## Investment

-:

-:

- =

- =

-:

=

-:

( )

= ( )

-:

-

.

-

-

-

-



/

- : -  
-----

- : -  
-----

- : -  
-----

-:

Technological

-: \_\_\_\_\_ -

Progress

-: \_\_\_\_\_ -

-: \_\_\_\_\_ -

-: \_\_\_\_\_ -

— ∴ —

— ∴ —

— ∴ —

" Marginal Efficiency of Capital

."( )

"

"



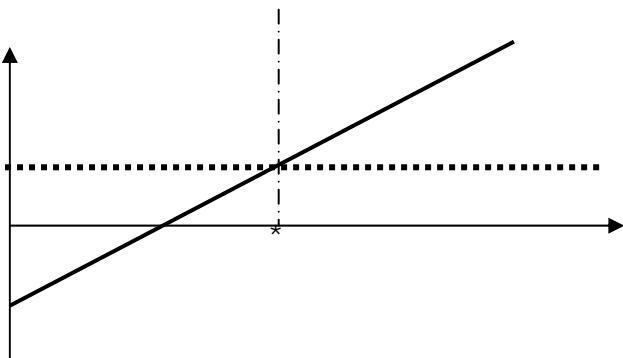
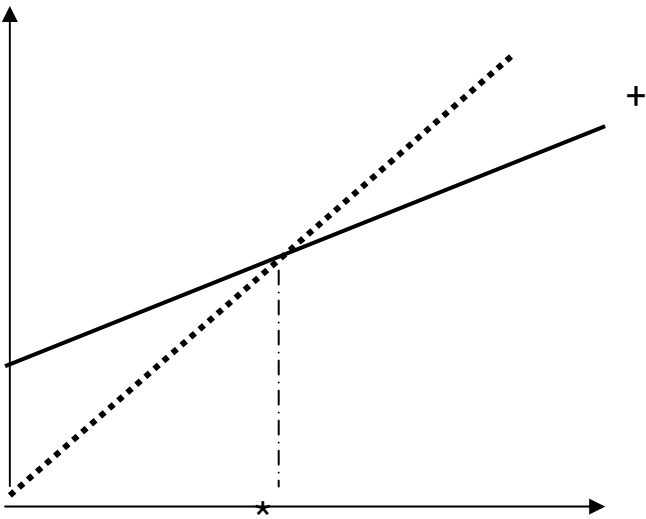


-:

$$\begin{aligned} &= \leftarrow = \\ + &= + \\ &= \end{aligned}$$

-:

$$\begin{aligned} &.( + = ) \quad - \\ &.( = ) \quad - \end{aligned}$$



-:

		-		
		-		
		-		
		-		
		-		

" + "

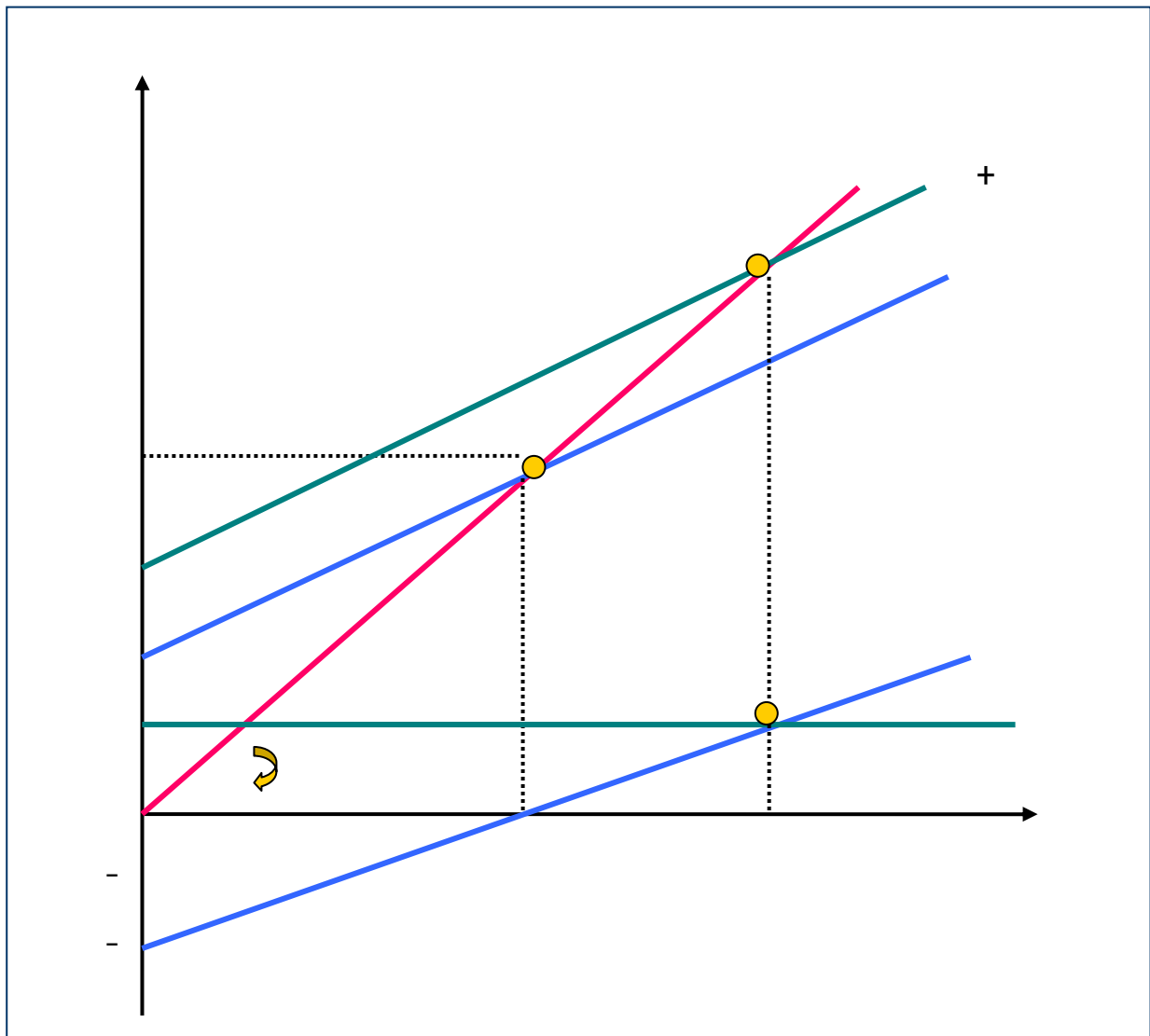
" "

" "

. =

.( ) ( )

. = = ( )




---

= = ( ) -:  
( ) < ( )  
<  
( ) < ( )  
( )  
. = =

= ( )

-: =

( ) > ( )

>

( ) > ( )

( )

.

. = =

-:

-:

-:

= + =

( ) ..... + =

( ) ..... + = :

( ) ..... = :

-: ( ) ( ) ( )

+ = \* - \* ← + + = \*

+ = \* ( - )

+ = \*  
-

-:

= , = , + = , - = \*

.





( )

-: , + = :

= = : -  
-  
-  
-

( )

( )

( + )

-:

= , = + = + = \*  
, - -

( )

.( )

.  
( + )

( )

-:

= , = , + = + - = \*

( )

.( )

.

:\_

" **Multiplier** "

-: ."

△  
△ = ( )

.

.

.

.

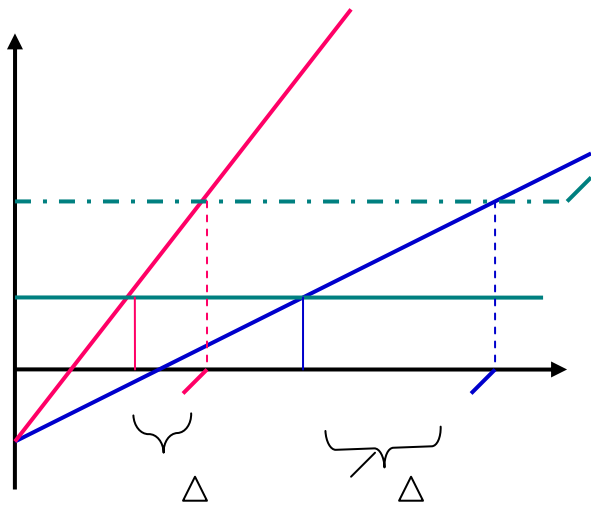
.

%

%

, =

.  
 ..  
 =  
 .( ) =  
 \_\_\_\_\_ :  
 \_\_\_\_\_  
 =  
 . ,  
 . )  
 .( = , ÷ :  
 . ( , ÷ ) , =



( )

( )

( )

)

(

-:

$$\begin{aligned} &+ \\ &= * \\ &- \end{aligned} \quad -:$$

$$\begin{aligned} &/ + \\ &= / * \\ &- \end{aligned} \quad -:$$

$$\begin{aligned} -: \\ - / \\ - \end{aligned} = \begin{aligned} + \\ - \end{aligned} \quad - \begin{aligned} / + \\ - \end{aligned} = * \begin{aligned} / * \\ - * \end{aligned}$$

$$-: \quad \Delta = \begin{aligned} - / \end{aligned} \quad \Delta = * \begin{aligned} - * / \\ -: \end{aligned}$$

$$\begin{aligned} - \\ - \end{aligned} = \begin{aligned} \Delta \\ \Delta \end{aligned} \quad \begin{aligned} \Delta \\ - \end{aligned} = \Delta$$

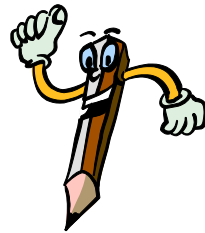
..

< - =  $\triangle$   
 $\triangle$

, = , = , - = - =

=  $\times$  , =  $\triangle \times$  =  $\triangle$

( )



( )

-: = , +

-  
-  
-

( )

-: , + :

-|

-

-

-

	..				

( )

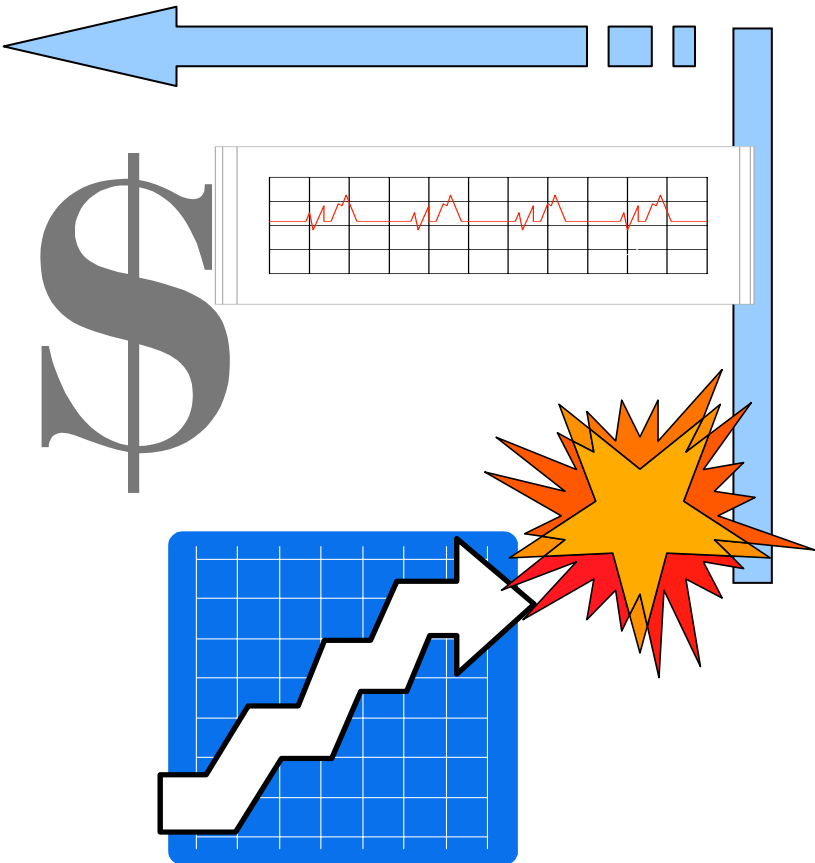
=

. = =

( )

, + = -:







( + )

\* ( )

Inflationary Gap

.deflationary Gap

-: -

( + )

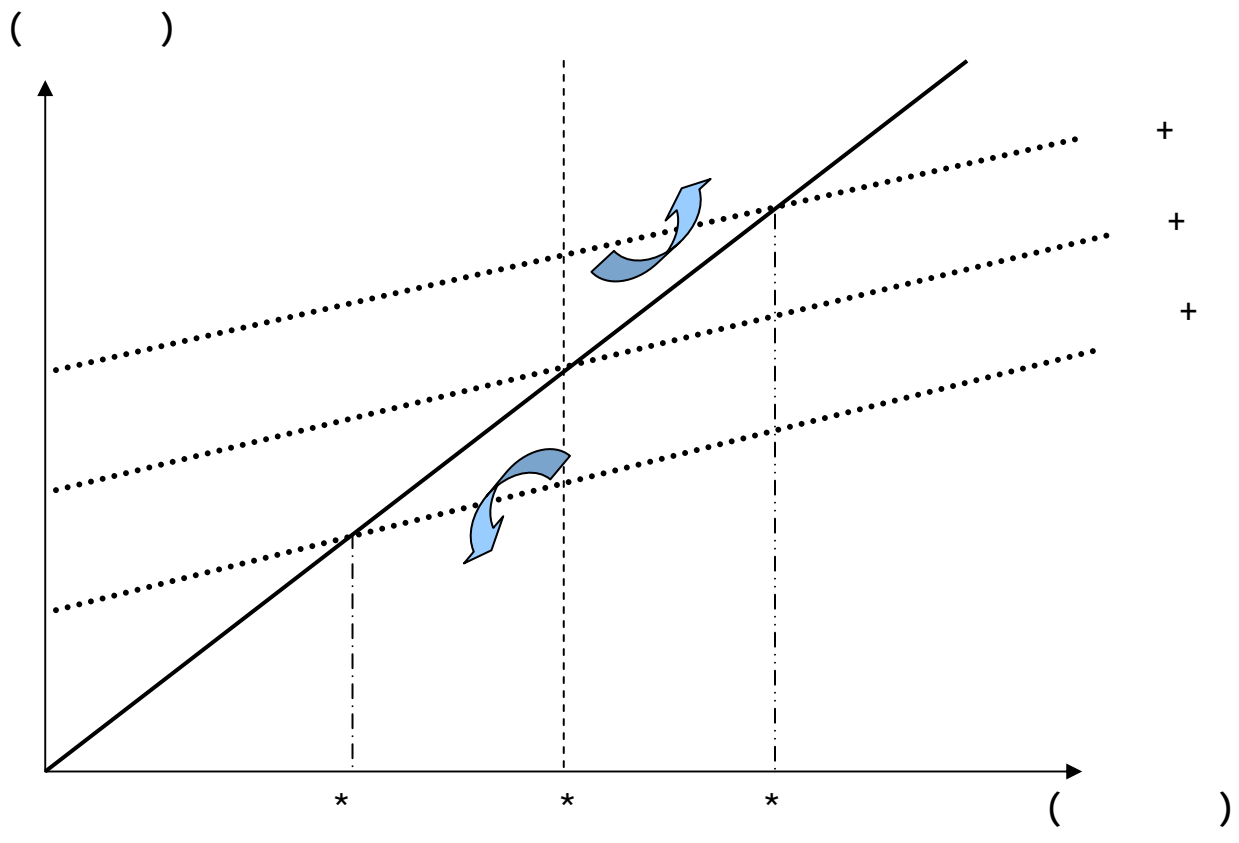
( )

\*

.( )

( )





-: -

( + )

( )

\*

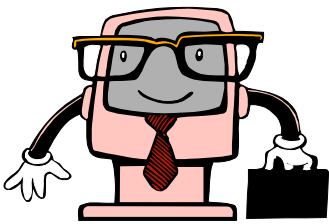
.( )

( )

( )

)

.( , =



( )

-: = , + = :

-  
-  
-  
-





## Inflation

"

"

"

"

:

-:

:

-:Open Inflation ( ) -

-:Repressed Inflation -

:

-:Hyper (Galloping) Inflation -

...

. Vicious Circle of Inflation "

"

-:Creeping Inflation -

$$\begin{aligned}
 & \frac{\dots}{\dots} \\
 & \text{--:Imported Inflation} \quad \text{--} \\
 & \text{--:Exported Inflation} \quad \text{--}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{\dots}{\dots} \\
 & \text{--:Demand-Pull Inflation} \quad \text{--} \\
 & \text{--:Cost-Push Inflation} \quad \text{--}
 \end{aligned}$$

Wage-Push

.Inflation

$$\begin{aligned}
 & \text{--:} \\
 & \text{--:} \\
 & \text{--:}
 \end{aligned}$$

Debtor -: \_\_\_\_\_ -  
Creditor

-: \_\_\_\_\_ -  
Balance of Payments

-: \_\_\_\_\_ -  
.Economic Growth

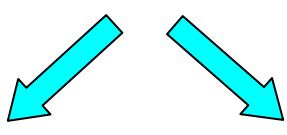




السكان  
Population



Labor Force



Unemployment

Employment

$$\% \times =$$

-:

:Fractional Unemployment ( ) -

Between (Job Vacancies )

.Job

**:Structural Unemployment** -

( )

"

"

: )

.(

" **:Cyclical Unemployment** -

)

.(

" **:Seasonal Unemployment** -

**: Disguised Unemployment** -

"

"

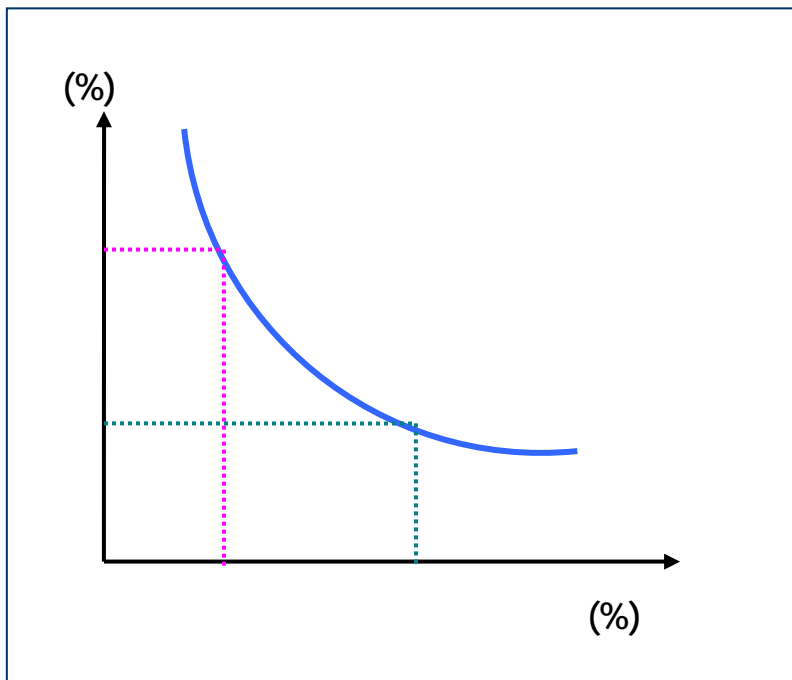
)

.(

( )

)

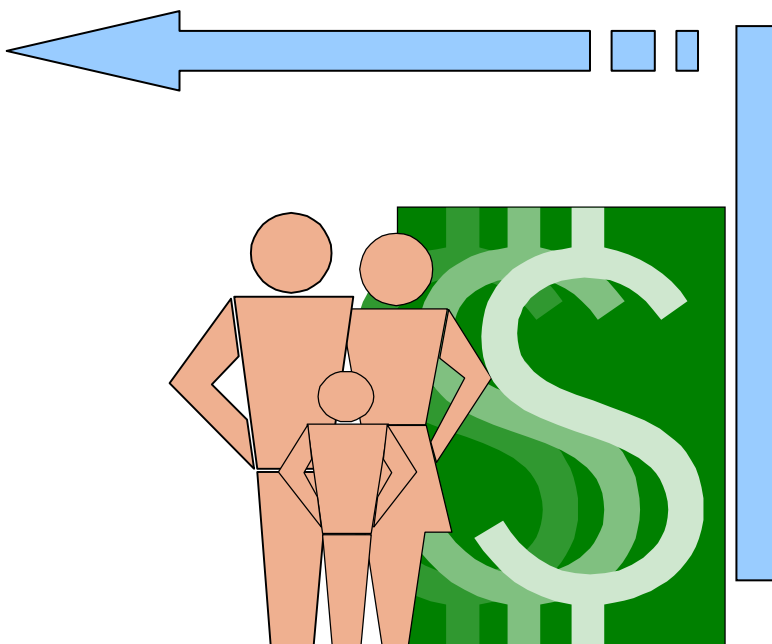
(



Phillips " " .Curve

. A.W.Phipip







"

"

.

"

"

"

"

:



$$\begin{array}{ccccccc} & & & & -: & & \\ & + & + & = & -: & = & - \\ \cdot & ( & : & ) & & & \end{array}$$

$$\begin{array}{ccccccc} & & & = & & - & \\ & + & + & = & + & + & \\ & & + & = & + & & \end{array}$$

$$( - ) + = -:$$

$$( - ) .$$

-:

# Budget Equilibrium Theory "

"

"

.

:

$$() \dots\dots + + = :$$

$$() \dots\dots + = :$$

$$() \dots\dots = : \quad () \dots\dots = :$$

.

$$() \dots\dots = :$$

$$)) \dots\dots ( - ) + = :$$

$$-: ( ) ( ) ( ) ( )$$

$$\begin{aligned}
 &+ + ( - ) + = * \\
 &+ + - + = * \\
 &+ + - = * - * \\
 &+ + - = * ( - )
 \end{aligned}$$

+	+	-	= *
		-	

.

$$, + = :$$

$$= :$$

$$+ + ( ) - = + + - = *$$

$$, - = , = *$$

$$.( - )$$

$$, = = \Delta = -:$$

$$, = , = , - = - = -:$$

$$- = \Delta =$$

$$+ + ( ) , - = + + - = *$$

$$, - = , = + + - = *$$

$$, \quad ( - )$$

$$. ( \div )$$

$$.$$

$$- \quad = \quad \Delta \quad = \quad - :$$

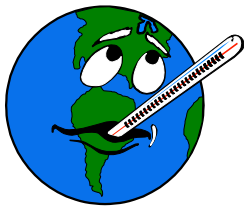
$$- \quad = \quad \Delta \quad =$$

$$- \quad + \quad - \quad = \quad \Delta \quad + \quad \Delta \quad = \quad +$$

$$- \quad = \quad \Delta \quad = \quad +$$

$$= \quad - \quad =$$

$$= \quad - \quad =$$



( )

-:( , = )

-

-

-

( )

= = : , + :  
-: =  
.  
=  
-  
-  
-  
-

**1 1 1 1 1 1 1**



.

-:

.Full Employment -

.Price Stability -

.Economic Growth -

.External Balance -

Economic Freedom

Environmental Standards

Economic Security

.

.

)

.(

# Financial Policy

Deflationary

.Expansionist Policy

)  
(  
Policy

-: \_\_\_\_\_ -

-:



. - . -  
.

- :  
-----

- :

. - . -  
.

" Monetary Policy

"  
.

"

"  
.

:

-

-

-

-

:

)

-

.(..

)

-

" "

.(

)

-

(

.

"

"

"

.

"

( )

.

.

.

.

-:

-: -

Open Market Operations

.

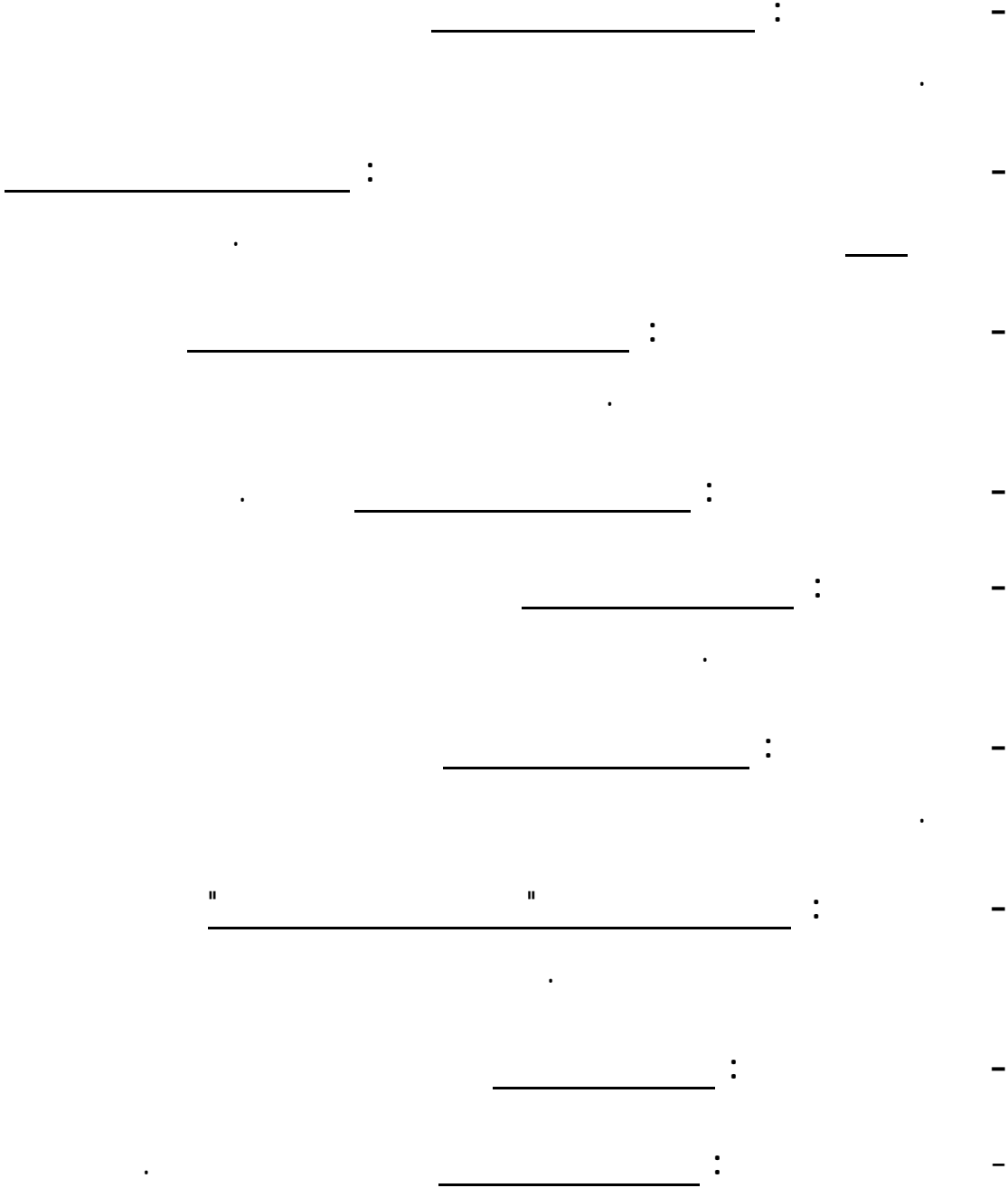
" Reserve requirements

The Discount Rate

- : -

---





- Shim, Jae K. ; Siegel, Joel G.: Macroeconomics, Barron's Educational Series.

- Diulio, Eugene: Macroeconomics, 3<sup>rd</sup> ed., Schaum's Outlines Series, McGraw-Hill, 1997.