



commerce
undergraduate
society

COMMERCE MENTORSHIP PROGRAM

MIDTERM REVIEW SESSION

ECON 102



PREPARED BY
JASMINE LEUNG



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Topic 1:

GDP (Gross Domestic Product)



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Intro to Macroeconomics

Macroeconomics

- The study of the economy as a whole.
 - Includes large-scale, economy-wide factors such as economic growth, inflation, unemployment, and GDP.
 - Includes markets, firms, consumers, and governments.

GDP (Gross Domestic Product)

- Also called National Income, National Output, and National Expenditure.
- The total monetary value of all finished goods and services produced in the economy of a country during a defined time period (usually a fiscal year).
- Used to estimate the size of an economy.



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GDP (Gross Domestic Product)

Nominal GDP

- Current dollar measure of GDP.
- Reflects changes in output and changes in prices.
- $\text{Nominal GDP} = \text{Current Q} \times \text{Current P}$

Real GDP

- Inflation adjusted measure of GDP (prices are held constant from year to year).
- Reflects changes in output produced (since prices are constant).
- $\text{Real GDP} = \text{Current Q} \times \text{Base P}$

GDP per capita

- $$\text{GDP per capita} = \frac{\text{Real GDP}}{\text{Total Population}}$$



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GDP (Gross Domestic Product)

Question: Between nominal GDP and real GDP, which measure is more accurate indicator of economic performance?



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GDP (Gross Domestic Product)

Question: The following table shows the output and prices of a country in 2022 and 2023. Calculate the nominal GDP in 2022 and 2023.

Goods produced	Price (2022)	Quantity (2022)	Price (2023)	Quantity (2023)
Bread	\$4	200	\$5	350
Cheese	\$2	50	\$3	70
Milk	\$5	100	\$7	140

GDP (Gross Domestic Product)

Question: The following table shows the output and prices of a country in 2022 and 2023. Calculate the real GDP in 2022 and 2023.

Goods produced	Price (2022)	Quantity (2022)	Price (2023)	Quantity (2023)
Bread	\$4	200	\$5	350
Cheese	\$2	50	\$3	70
Milk	\$5	100	\$7	140

GDP (Gross Domestic Product)

Question: Suppose the country's population is 310 in 2023. Calculate the GDP per capita in 2023 using the information from the previous table.



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Potential GDP

Potential GDP (Y^*)

- Also called Potential Output, Natural Rate of Output, and Full-Employment Output.
- Level of production of goods and services sustained in an economy in the long-run.
- The level of real GDP that the economy would produce at if resources are fully employed.

Output Gaps

- **Inflationary Gap**
 - $Y > Y^*$
 - The economy is producing at more than potential.
- **Recessionary Gap**
 - $Y < Y^*$
 - The economy is producing at less than potential.



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Potential GDP

Business Cycle

- The fluctuation of GDP over time.
- Upswings and downswings (expansions and contractions) of economic activity.

Recession

- Two quarters of negative growth.
- Downward trend in the business cycle.

Depression

- Major downswing and persistent low growth
- Characterized by high unemployment and pauses in economic activity.



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Measuring GDP

Methods for Measuring GDP

- Value Added Approach
- Expenditure Approach
- Income Approach

Value Added Approach

- Add up all added value during production to determine the final market value of goods produced.
- $\text{Value Added} = \text{Sales Revenue} - \text{Cost of Intermediate Goods}$
- Avoids the problem of double counting (adding the value multiple times).
- Intermediate goods: all outputs that are used as an input for another stage of production.



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Measuring GDP

Question: With the following information, use the value added approach to compute GDP.

	Sales Revenue	Cost	Value Added
Farmer grows cotton	\$2	\$1	
Factory produces fabric	\$5	\$3	
Manufacturer produces shirt	\$10	\$6	
			Total Value Added:

Measuring GDP

Expenditure Approach

- Flow of expenditure needed to produce final output.
- Expenditures fall under four categories: consumption, investment, government, and net exports.
- $GDP(E) = C + I + G + NX$

Consumption Expenditure (C)

- Expenditure made by households on goods and services.

Investment Expenditure (I)

- Expenditures made by firms on goods that are not for present consumption.
- Includes plant and equipment, inventory, and residential construction (new housing).



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Measuring GDP

Government Expenditure (G)

- Government purchases of goods and services.
- Excludes transfer payments (expenditures not in return for something else).

Net Exports (NX)

- $\text{Net Exports (NX)} = \text{Exports (X)} - \text{Imports (M)}$
- **Exports:** goods that flow out of and money that flows into the circular flow.
 - Foreign expenditure on domestically produced goods.
- **Imports:** goods that flow into and money that flows out of the circular flow.
 - Domestic expenditure on foreign produced goods.



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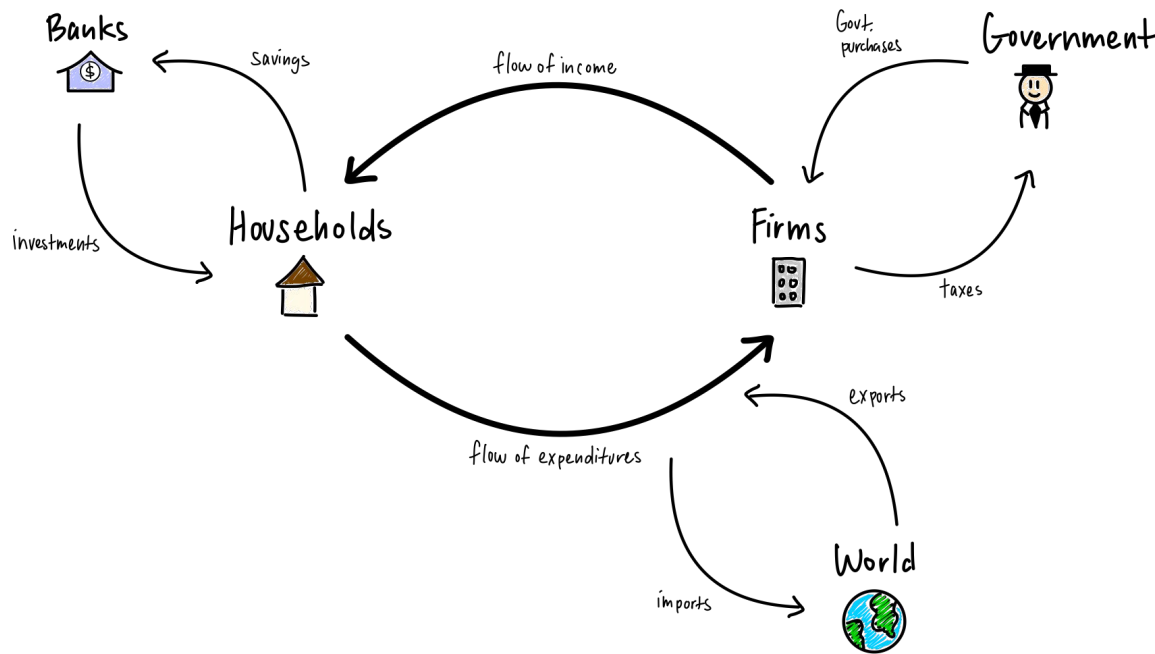


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Circular Flow Model



Spendthrift Economy: households and firms (flow of income and flow of expenditures)

Frugal Economy: includes banks (savings and investments)

Governed Economy: includes the Government (government purchases and taxes)

Open Economy: includes world trade (imports and exports)

Measuring GDP

Income Approach

- Flow of income claims by factors and non-factors on production
- $GDP(I) = \text{Factor Payments} + \text{Non-Factor Payments}$

Factor Payments

- Wages and Salaries (payments to labour)
- Economic Rent (payment to land)
- Interest (payment to capital)
- Business Profits (payment to taxes and expenditures)

Non-Factor Payments

- Indirect business taxes (sales and property taxes)
- Depreciation
- Subsidies (subtracted from the GDP(I) formula)



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Measuring GDP

Question: The following table provides information about a country's economic variables in 2023. Compute GDP using the expenditure approach.

Economic Variables	Amount (2023)
Consumption Expenditure	\$2972
Wages & Salaries	\$2852
Business Profits	\$905
Depreciation	\$150
Interest Income	\$1285
Investment Expenditure	\$335
Indirect Taxes	\$879
Exports	\$602
Imports	\$450
Subsidies	\$301
Government Expenditure	\$2311



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Measuring GDP

Question: The following table provides information about a country's economic variables in 2023. Compute GDP using the income approach.

Economic Variables	Amount (2023)
Consumption Expenditure	\$2972
Wages & Salaries	\$2852
Business Profits	\$905
Depreciation	\$150
Interest Income	\$1285
Investment Expenditure	\$335
Indirect Taxes	\$879
Exports	\$602
Imports	\$450
Subsidies	\$301
Government Expenditure	\$2311



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Omissions from GDP

Illegal Activities

- Not reported and difficult to measure.

Underground Markets

- Legal transactions that are not recorded for tax evasion purposes.

Non-Market

- Include home activities, volunteering, leisure.
- Add to economic well being, but there is no transaction.

Free Products

- Include the internet and social media platforms
- Generate economic activity, but there is no transaction.

Economic "Bads"

- Include negative effects to the environment, health, and well being.
- Negative externalities that detract from economic value.



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Omissions from GDP

Question: Do omissions from GDP matter?



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GDP Deflator

GDP Deflator

- An index of inflation that considers all goods produced in a country.
- Converts Nominal GDP to Real GDP.

- $$\text{GDP Deflator} = \frac{Q_{\text{Current}} \times P_{\text{Current}}}{Q_{\text{Current}} \times P_{\text{Base}}}$$

- $$\text{GDP Deflator} = \frac{\text{Nominal GDP}}{\text{Real GDP}}$$



GDP Deflator

Question: Calculate the GDP deflator for 2021 based on the values in the following table.

	2020	2021
Nominal GDP	800	950
Real GDP	675	825

GDP Deflator

Question: Using values from a previous question, calculate the GDP deflator for 2023. What is the inflation rate from 2022 to 2023?

Goods produced	Price (2022)	Quantity (2022)	Price (2023)	Quantity (2023)
Bread	\$4	200	\$5	350
Cheese	\$2	50	\$3	70
Milk	\$5	100	\$7	140



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GDP (Gross Domestic Product)

Question: Does the choice of base year matter when calculating real GDP and the GDP deflator? Why or why not?



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GDP and Living Standards

Question: Is GDP a good measure of living standards?



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GDP (Gross Domestic Product)

Question: What is the difference between GDP and GNP (Gross National Product)?



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Rule of 70

Rule of 70

- Used to determine the number of years it takes for a variable to double.
- Number of years for variable to double =
$$\frac{70}{\text{Growth Rate}}$$
- Can be calculated with nominal GDP or real GDP.

Question: An economist calculates Canada's average growth rate to be 5%. How long will it take Canada to double its GDP?



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Topic 2:

Unemployment



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Unemployment

Labour Force

- Sum of employment and unemployment.
- **Employment:** number of people above 15 years old who are employed (full-time, part-time, temporary, self-employed).
- **Unemployment:** number of people above 15 years old who are willing and searching for work but are not employed.

Unemployment Rate

- Unemployment rate =
$$\frac{\text{Unemployed}}{\text{Labour Force}}$$



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Unemployment

Question: Why does unemployment matter? How does unemployment affect both the macroeconomy and individual citizens?



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Unemployment

Question: There are currently 85,000 unemployed people in a town. The labour force is 500,000 people. What is the unemployment rate?



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Unemployment

Question: Now suppose 25,000 of the unemployed people in that town become discouraged workers. What is the new unemployment rate?



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Unemployment

Question: Why may the unemployment rate not always be reliable?

Unemployment

Types of Unemployment

- **Frictional:** unemployment between jobs
- **Structural:** mismatch in skills and demand for labour
- **Cyclical:** caused by recessionary gaps in the business cycle

Natural Rate of Unemployment

- Also called the non-accelerating inflation rate of unemployment (NAIRU)
- Rate of unemployment when the economy is at full employment
- Frictional unemployment + structural unemployment



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Unemployment

Question: Stella was a factory worker who was recently laid off due to automation and technological advances in manufacturing. What is this type of unemployment?

- a) Frictional Unemployment
- b) Structural Unemployment
- c) Cyclical Unemployment

Question: Erin voluntarily left her current job in a search for a better job opportunity. What is this type of unemployment?

- a) Frictional Unemployment
- b) Structural Unemployment
- c) Cyclical Unemployment

Topic 3:

Inflation and CPI



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Inflation and CPI

Inflation

- The increase in the average overall price level of goods and services in the economy.
- Price level is expressed with the CPI (Consumer Price Index).

Inflation Rate

- Percent change in price level.
- Inflation rate =
$$\frac{\text{Change in Price Level}}{\text{Initial Price Level}}$$

CPI (Consumer Price Index)

- An index of the weighted average price of all goods and services of a market basket of goods (representative of consumer spending and used to track changes in prices over time).



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Inflation and CPI

Constructing the CPI

- Determine the goods in the basket.

- $$\text{CPI} = \frac{Q_{\text{Base}} \times P_{\text{Current}}}{Q_{\text{Base}} \times P_{\text{Base}}}$$

- The CPI is the basket price in the current year divided by the basket price base year.
- CPI provides the inflation rate.



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Inflation and CPI

Question: The following table provides prices and quantities of goods in a market basket. Calculate the CPI.

Basket Goods	Price (2022)	Price (2023)	Quantity (2022)	Quantity (2023)
Apples	\$4	\$6	80	90
Oranges	\$3	\$4	100	150
Bananas	\$1	\$3	50	60



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Inflation and CPI

Question: Use the previously calculated CPI to determine the inflation rate in 2023.

Inflation and CPI

Question: What are the issues with using CPI as a measure of increases in cost of living?



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Inflation and CPI

Question: In the US, a market basket of goods cost \$210 in 2021, \$250 in 2022, and \$280 in 2023. Assuming 2021 is the base year, what is the price index in 2022 and 2023?



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Topic 4:

Aggregate Expenditure



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Aggregate Expenditure

Desired Expenditure

- Intended and planned value of GDP
- Y-axis

Actual Expenditure

- Actual value of GDP
- X-axis

Autonomous Expenditure

- Exogenous variable
- Does not depend on Y (GDP / National Income)

Induced Expenditure

- Endogenous variable
- Function of Y



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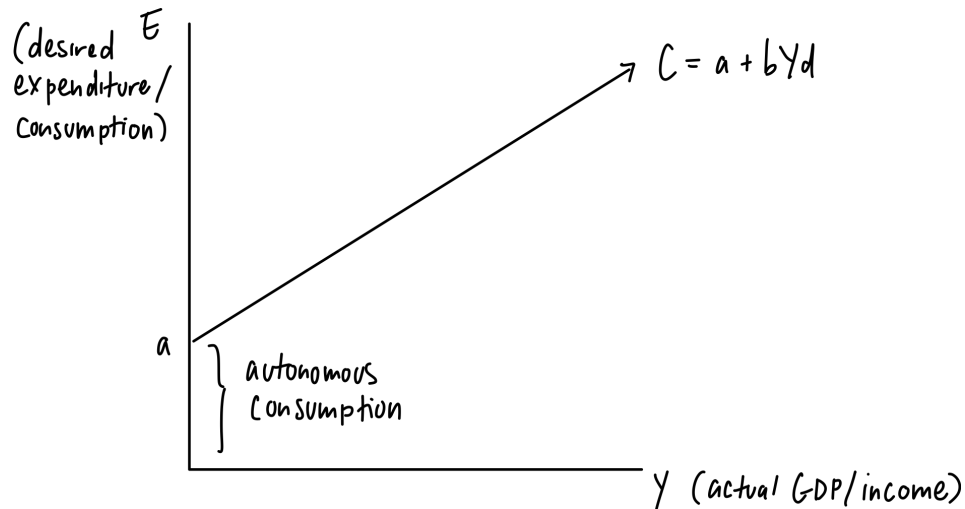


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Consumption Function

Consumption Function

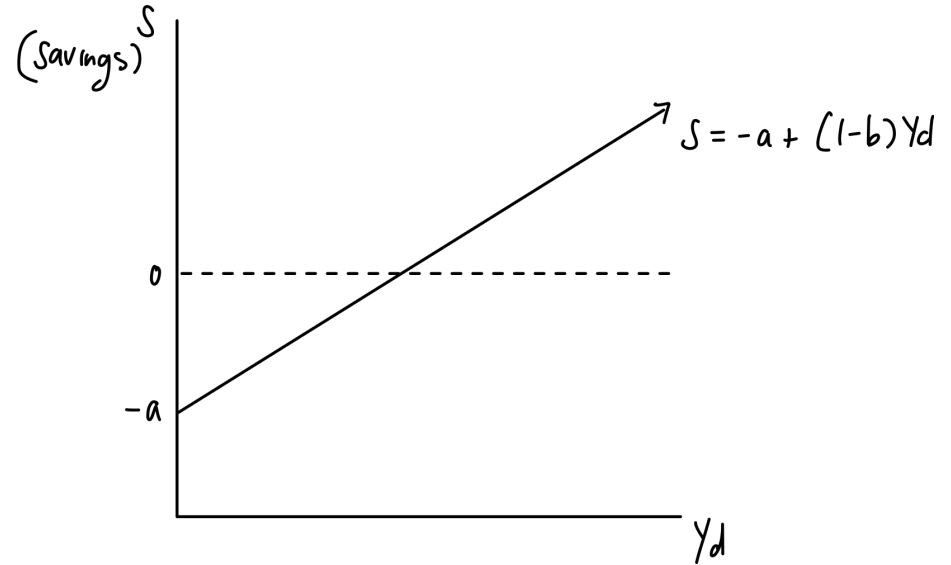
- Simplified function of aggregate expenditure.
- Relationship between desired consumption and actual GDP/income.
- $C = a + bY_d$
 - a = autonomous consumption
 - bY_d = induced consumption
 - b = marginal propensity to consume (MPC)
 - Y_d = disposable income ($Y_d = Y(1 - t)$)



Savings Function

Savings Function

- Consumption + Savings = Disposable Income
- $S = Y_d - C$
- $S = -a + (1 - b)Y_d$
 - $1 - b$ = marginal propensity to save



Theories of the Consumption Function

Question: Explain Keynes' theory of the consumption function?



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Theories of the Consumption Function

Question: Explain Friedman's theory of the consumption function?



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Consumption Function

Marginal Propensity to Consume (MPC)

- Ratio of the change in desired consumption to the change in disposable income.
- $MPC = \Delta C / \Delta Y_d$

Average Propensity to Consume (APC)

- The proportion of disposable income that households want to spend.
- $APC = C / Y_d$

Marginal Propensity to Save (MPS)

- Ratio of the change in desired savings to the change in disposable income.
- $MPS = \Delta S / \Delta Y_d$

Average Propensity to Save (APS)

- The proportion of disposable income that households want to save.
- $APS = S / Y_d$



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Consumption Function

Question: Annie received a raise in salary from \$70,000/yr to \$95,000/yr. Her savings increased from \$20,000 to \$30,000 per year. Calculate her MPC.



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Aggregate Expenditure

Aggregate Expenditure

- The total desired components of spending in the economy.
- Frugal economy: $AE = C + I$
- Governed economy: $AE = C + I + G$
- Open economy: $AE = C + I + G + NX$

Aggregate Expenditure Function

- $AE (\text{desired}) = a + bY$
- a : autonomous expenditures
- bY : induced expenditure (depends on national income)
 - b : marginal propensity to spend



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Aggregate Expenditure

Induced (variable) vs Autonomous (fixed)

- Consumption expenditures: Induced and Autonomous
- Investment expenditures: Autonomous
- Government expenditures: Autonomous
- Exports: Autonomous
- Imports: Induced

Autonomous Expenditure: $C + I + G + X$

Induced Expenditure: $[MPC \times (1 - t)Y] - mY$

AE = a + $[MPC \times (1 - t)Y] + I + G + X - mY$



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Aggregate Expenditure

Question: The United States' autonomous consumption is \$850, government expenditure is \$360, marginal tax rate is 10%, exports is \$240, investments is \$150, marginal propensity to consume is 0.8, and marginal propensity to import 0.2. Determine the aggregate expenditure function.



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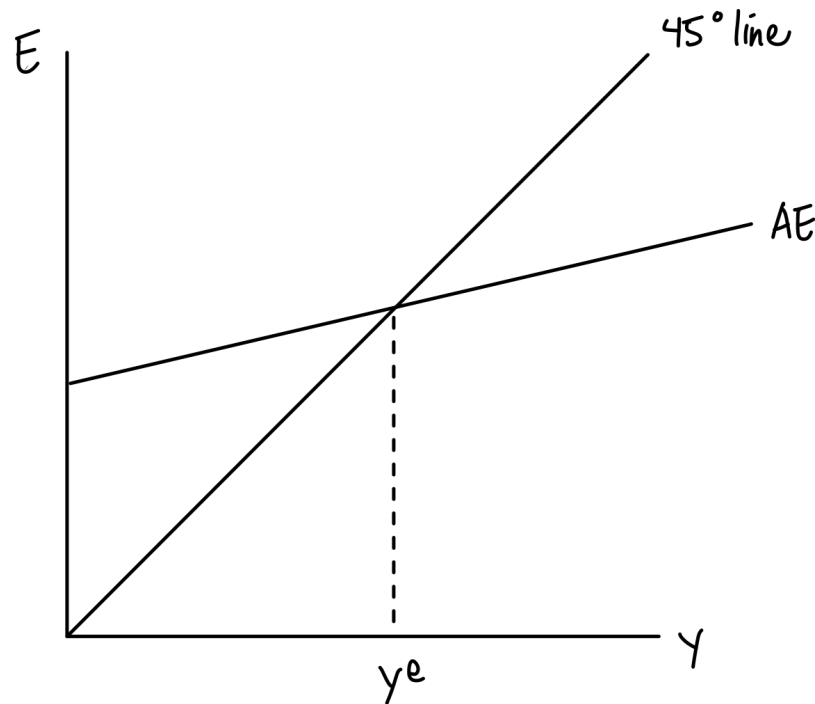


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Equilibrium

Equilibrium

- Stable level of GDP (GDP remains constant and does not want to change).
 - There is a tendency for GDP to move toward the equilibrium.
- Point of intersection where $AE = Y$ (desired expenditure is equal to actual output).
- Where the AE function intersects the 45 degree line.
 - The 45 degree line is a hypothetical line that shows all points where desired expenditure is equal to actual output.



Equilibrium

Question: Why is $AE = Y$ a stable equilibrium?



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Equilibrium

Question: Using the previous aggregate expenditure function, solve for the equilibrium point.



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Equilibrium

Question: Draw a graph of the AE function. Indicate the equilibrium point on the graph.



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Equilibrium

Equilibrium

- The equilibrium point is also where withdrawals is equal to injections.
 - The amount of money leaving the economy is equal to the amount of money entering the economy.

Withdrawals

- The induced portion of aggregate expenditures.
- Includes savings, taxes, and imports.

Injections

- The autonomous portion of aggregate expenditures
- Includes autonomous consumption, investments, government purchases, and exports.



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Equilibrium

Question: Why is $W = J$ a stable equilibrium?



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Marginal Propensity to Spend (MPSPend)

Marginal Propensity to Spend

- The proportion of an additional dollar of income that is spent on consumption.
- MPSPend determines how much people spend.
- Slope of the AE function.
- $\text{MPSPend} = \text{MPC} (1 - t) - m$
 - MPC: marginal propensity to consume
 - t: tax rate
 - m: marginal propensity to import



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Marginal Propensity to Spend (MPSpend)

Question: Scarlett has \$100 in income. If there were no taxes, she would want to save \$40. Since the government taxes 15% of Scarlett's total income, she only consumes on her after-tax income. Additionally, 10% of her income is used to purchase imports. Calculate Scarlett's marginal propensity to spend.



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Topic 5:

Multiplier



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Multiplier

Multiplier

- How much a change in autonomous spending will increase GDP.
 - Autonomous spending raises income, which induces more spending and creates a continuous cycle.
- Reflects the magnifying effect of initial spending on overall economic activity and GDP.
- $\text{Multiplier} = 1 / (1 - \text{MPSpend})$

Change in GDP

- $\text{Change in GDP} = \text{Change in Autonomous Expenditure} \times \text{Multiplier}$



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Multiplier

Question: How will the injection of some amount of dollars from spending affect GDP and overall economic activity? Explain using the multiplier effect.



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Multiplier

Question: Explain the relationship between MPS_{pend} and the multiplier. How does a change in one value affect the other?



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Multiplier

Question: Suppose the autonomous consumption in Canada increases by \$20 billion. MPSpend is 0.8. What is the total effect on GDP?



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Multiplier

Question: What is the multiplier if a \$900,000 decrease in investment expenditure in the United States resulted in a \$1.5 million decrease in real GDP.



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Topic 6:

AD/AS Model



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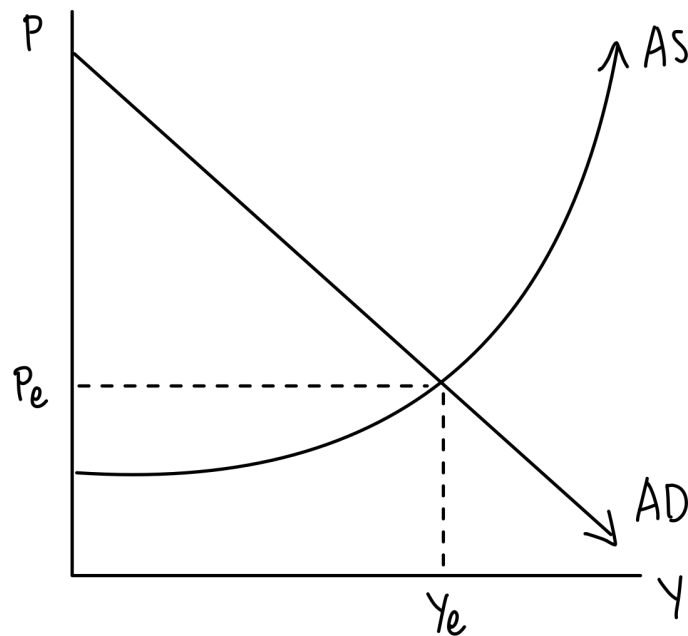
AD/AS Model

AD/AS Model

- Macroeconomic model of price level and output through the relationship between aggregate demand and aggregate supply.
- Used to explain fluctuations in economic activity.

Macroeconomic Equilibrium

- Intersection of AD and short-run AS curves.
- Y_e is the equilibrium level of GDP.
- P_e is the general price level in the economy.



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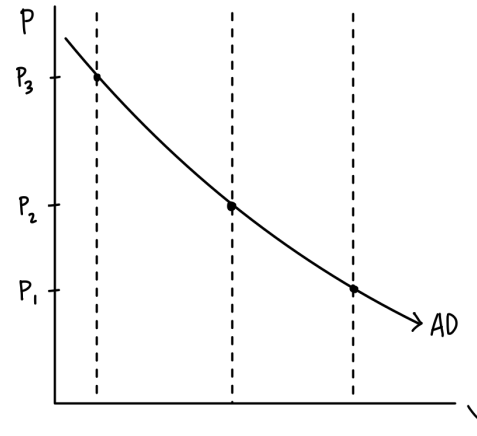
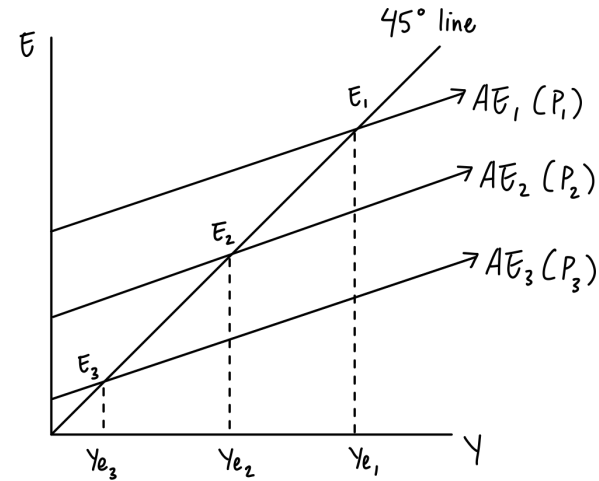


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Aggregate Demand

Aggregate Demand

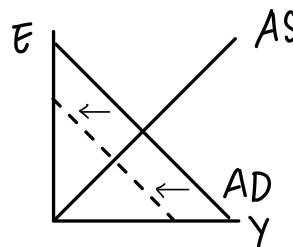
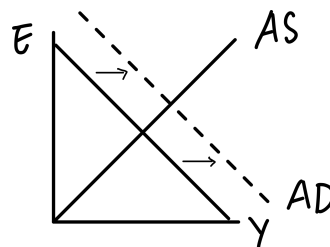
- Curve that shows the quantity of goods and services that households, firms, and the government want to buy at each price level.
- Relationship between the general price level (P) and the level of GDP (Y) for which $Y = E$.
- Combinations of P and Y where AE intersects the 45 degree line.



Aggregate Demand Shocks

Aggregate Demand Shocks

- An event that shifts the aggregate demand curve.
- Caused by changes in autonomous AE (eg. change in wealth, preferences, exchange rates, interest rates from monetary policy)
- Positive/Expansionary demand shock:
 - Shifts the curve to the right.
 - Increases aggregate output and price level.
- Negative/Contractionary demand shock:
 - Shifts the curve to the left.
 - Decreases aggregate output and price level.



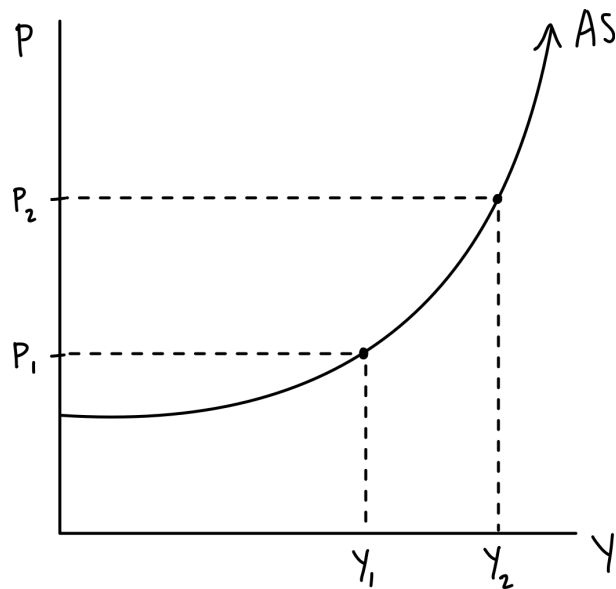
Short-Run Aggregate Supply

Short-Run Aggregate Supply

- Curve that shows the quantity of goods and services that firms choose to produce and sell at each price level.
- Assumptions:
 - Factor prices are constant.
 - State of technology is constant.
- Upward sloping curve that reflects unit costs.

Law of Diminishing Marginal Returns

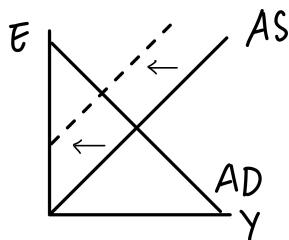
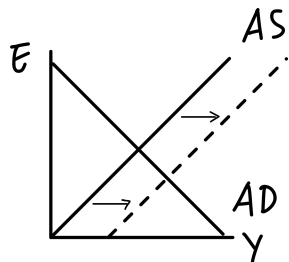
- As output increases and efficient inputs are used, costs increase since the less efficient inputs are left to be used.
- Results in an increasing slope and unit costs rising faster.



Aggregate Supply Shocks

Aggregate Supply Shocks

- An event that shifts the short-run aggregate supply curve.
- Caused by changes in input prices, productivity, and technology.
- Positive/Expansionary supply shock:
 - Shifts the curve to the right.
 - Increases aggregate output.
 - Decreases price level.
- Negative/Contractionary supply shock:
 - Shifts the curve to the left.
 - Decreases aggregate output
 - Increases price level.



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Aggregate Demand and Supply Shocks

Question: Determine the type of aggregate demand or aggregate supply shock in the following scenarios:

1. A 10% decrease in income taxes.
2. An significant increase in labour productivity
3. The central bank raises interest rates.



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Aggregate Demand and Supply Shocks

Question: Determine the type of aggregate demand or aggregate supply shock in the following scenarios:

4. A sudden spike in input prices.
5. Consumer uncertainty during an economic downturn.
6. Increased crop yields due to good weather conditions.



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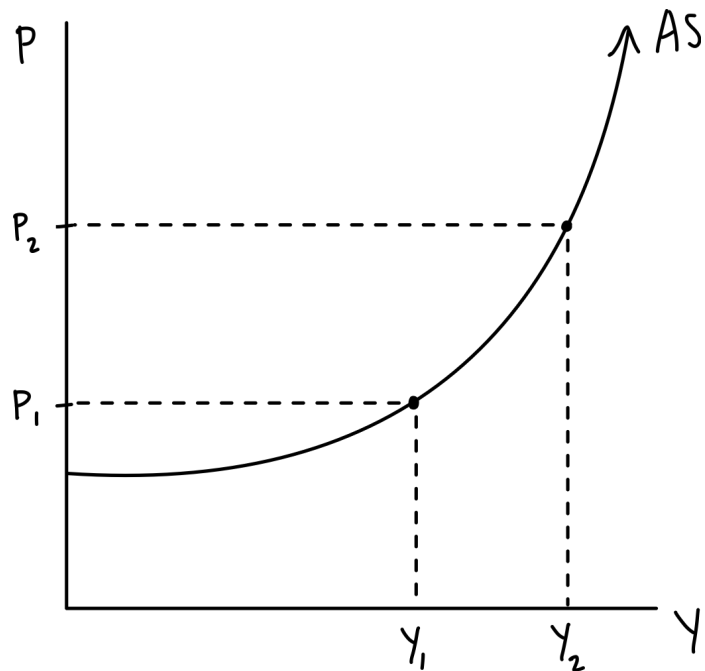
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Aggregate Demand and Supply Shocks

Question: In the AD/AS model, where would a surplus occur? Where would a shortage occur?



THANK YOU!
ANY QUESTIONS?



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Questions?



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