3 week: In-class Learning Activity

National saving Example:

1) Suppose that GDP is 10,000, Tax is 1,500, Government spending is 4,000 and consumption is 4,000. Calculate Public Savings, Private savings and National Savings.

Answer) Using the public savings equation

Public Savings = T - G Public Savings = 1,500 - 4,000 Public Savings = -2500

This suggests that the government is running a budget deficit.

Using the Private savings equation

Private savings = Y - T - C

Private savings = 10,000 - 1,500 - 4,000

Private savings = 4,500

Now using the National savings equation

National Savings = Public Savings + Private Savings

National Savings = -2500 + 4,500

National Savings = 2,000

2) Suppose GDP equals \$12 trillion, consumption equals \$5.5 trillion, the government spends \$3 trillion and has a budget surplus of \$500 billion. Find public saving, taxes, private saving, national saving, and investment.

Given: $\mathbf{Y} = 12$, $\mathbf{C} = 5.5$, $\mathbf{G} = 3.0$, $\mathbf{T} - \mathbf{G} = 0.5$ tr Public saving = $\mathbf{T} - \mathbf{G} = 0.5$ tr Taxes: $\mathbf{T} = \mathbf{G} + 0.5 = 3 + 0.5 = 3.5$ tr Private saving = $\mathbf{Y} - \mathbf{T} - \mathbf{C} = 12 - 3.5 - 5.5 = 3$ tr National saving = $\mathbf{Y} - \mathbf{C} - \mathbf{G} = 12 - 5.5 - 3 = 3.5$ tr Investment = national saving = 3.5tr