Macroeconomics	IS Curve	Macroeconomics	IS Curve
Aggregate Demand Equals National Product Describing the real sector of the economy, the IS curve represents the condition that aggregate demand equals national product. Whereas in the Keynesian cross model aggregate demand depended only on national income, now it depends as well on the interest rate.		Investment Demand The interest rate is the cost of capital to the firm. We model real investment demand as a decreasing function $i(r)$ of the real interest rate r (figure 1). As the cost of capital rises, the investment demand falls.	
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Macroeconomics	IS Curve	Macroeconomics	IS Curve
Figure 1: Investment Demand		Aggregate Demand Equals Nation That aggregate demand equals national product consumption demand $c(y)$ plus investment dem government expenditure on goods and services national product y: c(y) + i(r) + g = y.	al Product t means that hand $i(r)$ plus g equals (1)
Macroeconomics	IS Curve	Macroeconomics	IS Curve
Desired Investment Equals Desired S	aving		
The name "IS curve" derives from the property that it represents that desired investment equals desired saving.		IS Curve	
Let <i>t</i> denote taxes. Rearranging (1) gives i(r) = [y - t - c(y)] + (t - g).		Think of the national income and product y and the interest rate r as defining the state of the economy. Given these two variables, one can determine the aggregate demand.	
The left-hand side is desired investment. The right-hand side is desired saving: $y - t - c(y)$ is household saving (disposable income $y - t$ less consumption demand), and the government surplus $t - g$ is government saving.		In figure 2, the IS curve shows the combinations of y and r such that aggregate demand equals national product.	
5		6	



Macroeconomics

IS Curve

Multiplier Effect

A change in autonomous demand shifts the IS curve right or left. The horizontal shift is the change in autonomous demand times the multiplier 1/(1-mpc).

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