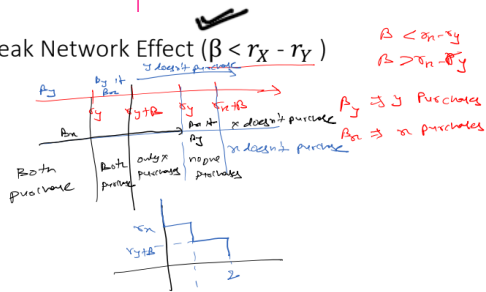
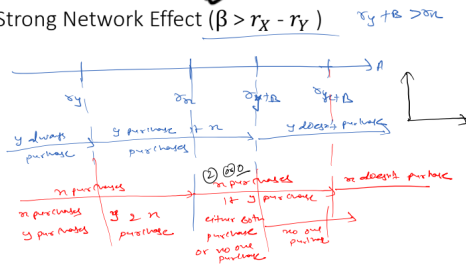


		B	
		Buy	Don't Buy
A	Buy	$\gamma_A + \beta - A$, $\gamma_A + \beta - A$	$\gamma_A - A$, 0
	Don't Buy	0, $\gamma_A - A$	0, 0

Weak Network Effect ($\beta < r_X - r_Y$)



Strong Network Effect ($\beta > r_X - r_Y$)



A simple model: Summary

'Weak' network effects

- Demand function similar to benchmark case
- Larger set of prices for which both users buy

'Strong' network effects

- 2 major transformations in the demand function
- No price such that only one user buys the good.
- The same price may give rise to two different quantities.

Consequences

- Unpredictability: For intermediate fees, no way to know a priori whether the good will be adopted or not
- Potential inefficiency:

- $A \leq r_Y + \beta \Rightarrow$ Both users are better off if they buy.
- $A > r_Y \Rightarrow$ Users may not buy at equilibrium.

Network effects make users' purchasing decisions interdependent. As a result, there can be several levels of demand for the same fee, making it hard to predict a priori what users will decide and giving rise to potential inefficiencies, as users may fail to purchase the product although this would make them all better off.