Computing the Aggregate Demand Curve

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Aggregate demand: Amount of service that households pur drave so as to maxim, 20 then utility, given price of service p and market tightness &.

Notation yd (x, p) to max. utility, household consumes $C = \left(\frac{\times}{1+7(1)}\right) \qquad m$ To max itility, household purchases c. [1+ T(X)]. J = X².

[1+7(2)]^{E-1} Budget constraints of all househols: $m + p \cdot [1 + c(\eta)] c = p + p \cdot f(\eta) \cdot k$ through matching. # services sold: # services purches

service sold = f(n) - k = m(k, v) # servis purchased: T(x). U = mr (fe, v) = C. [1+ T(x)] (by definition

= y $\int (n) x = [1+7(x)] \cdot c$ Plug into budget (anstraint. m= Combining FOC from household problem w/ # service purchased / lemanded by households nd (x, p) is the AD curve