Household's Budget Constraint

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Budget constraint # wakers w/ a job - Laba in come. Income pits a [1- uits] h productionly # wakers in labor price da Berviu # services sold by lousehold ger unit time Investment / paring income interest from band hilding naminal honochold by interest rate expenditure en arvices Expenditure P(+) [1+7(0+)] C(+) pria ! H orisis consumed by household given by a pra mm # service purchased by household payments Tit, limance interest

Nominal budget constant. b,t, = i(t) b,t, + p,t, a [1-4,t) h - p,t,[1+7(0)] _ _ _ _ _ _ _ _ Budget constraint in real terms; real brock of bonds with = bits real interest rate Tito = it - Tito monimal inflation rate = px) $\frac{1}{b} \left(\frac{ln(w,t)}{w(t)} = \frac{ln(b,t)}{b(t)} - \frac{ln(p,t)}{b(t)} \right) = \frac{b(t)}{b(t)} = \frac{b(t)}{b(t)} - \frac{\pi}{b(t)}$ $\dot{w}_{t}(t) = w_{t}(t) \times \left[\frac{b_{t}(t)}{b_{t}(t)}\right] - T(t) \cdot w_{t}(t)$ w(+)/ b (+) = 1/p(+) $w(t) = \frac{b(t)}{p(t)} = \tau(t)$

Real budget conoraint: w (t) = i(t) w(t) + a [1-u(t)] \(\frac{1}{2} - \left[1+ \tau(t) \right] \(\frac{1}{2} - \frac{1}{2} \) with = 72(+) with + a (1- 11+) h - [1+7(++)) (+) - T(+)