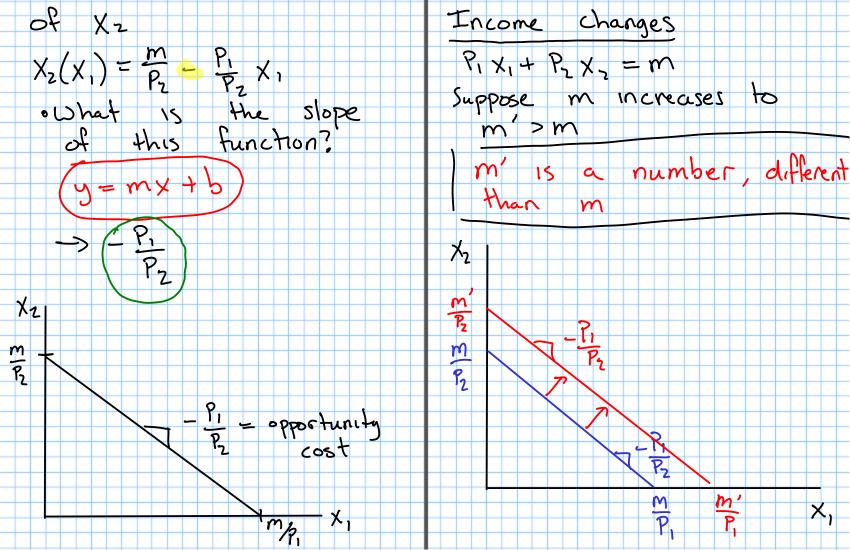
Consumer Theory · assumptions are combined to make predictions · How do consumers make about the "real world" choices? · Predictions are only · How do consumers react as good as our to changes in the world assumptions around them? - If our assumptions Kational Choice Model are bad, our predictions · Decisions by consumers will (probably) be bad are based on 2 things: too! Preferences Problem What do people want? All assumptions are false! V. Budgets The accuracy of our what people can afford model depends on the accuracy of assumptions What is a model? o There is no "scientific" way to test assumptions · A collection of assumptions

Budget constraints Suppose you have 5 tacos. How much beer can Example you buy? 2 goods: Tacos & Beet 40-2.5= 30 left over b: # of beers you drink 30 4 = 7,5 beers t: # of tacos Pb: price of beet -> b = 40 - 2t P. : price of tacos Total expenditure: In general: Pbb + Pit = expenditure · Z goods: 1 and Z · Quantity of good 1 consumed is X1 you have 940 in your · Quantity of good Z: Xz pocket · Prices: P, and Pz 46+24540 · Income: m total expenditures must be All variable measured per unit of time less than your budget

t=0, $b=\frac{m}{P_b}=\frac{40}{4}=10$ re dollars per hour in vages · Suppose he spend everything beers per night Define: (x,, xz) is b=0, $t=\frac{m}{P_{t}}=\frac{40}{2}=20$ a consumption bundle - the amount of stuff 20 we are consuming We say a consumption bundle is affordable set of all budget > affordable $P_1 \times 1 + P_2 \times 2 \leq m$ (10,10) consumption bundles budget constraint Example P3=4, P2=2, m=40 · Suppose we spend all of our income on b. How much can we consume?

[s (10,10) affordable? $X_2 = \frac{M}{P_2} - \frac{P_1}{P_2} \times 1$ 10.2+10.4 = 20+40 $X_2(x_1) = \frac{m}{R_2} - \frac{P_1}{R_2} \times 1$ Budget line Given X1, how much X2 can we buy? P, X, + P2 X2 = m · Lets suppose we are Any bundle on the budget line uses all of our consuming (X1, X2) and we decide to increase income our consumption of X, expenditures = income by 1 unit. lets express Xz as a How much X2 do function of X, we need to give up? $X_2 = X_2(X_1)$ Solve for Xz: -Pi is the opportunity
Pz cost of X, in terms P, X, + Pz Xz = m $P_2 X_2 = m - P_1 X_1$



· opportunity costs change · Changes in income don't affect opportunity costs The budget set gets · Slope remains the same, smaller budget line shifts Example Price changes Suppose P, and Pz increase by a factor of t P' = tP, P1 X, 4 P2 X2 = m Suppose P, increases to P, P2 = tP2 , t > 1 XZ P, x, + P2 x 2 = m $tP_1X_1+tP_2X_2=m$ $t(P_1 \times_1 + P_2 \times_2) = m$ $P_1 \times_1 + P_2 \times_2 = \frac{m}{4}$ χ,

