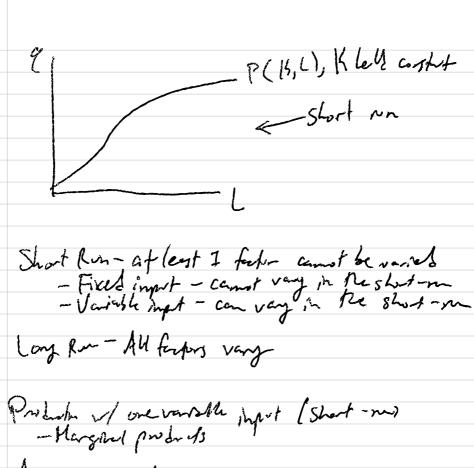
Dylan Blank ECON 2316 Certin 9: Theory of the Firm Theory of the firm

- how a firm's costs very of others

- How it vacles cost minimizing production decisions 3 steps - Production technolosy - Cost constraints - Input choice Factor of Production -3 generalized factors - Row Materials (M) - Law- (L) - Capital (15), physical ad human capital - nik! human capital represents shills belt by worlds, not the works themselves Production Fraction - higher orland for every combo of orbust [q=f(15,L)] - describe technically freshle

what can we produce when he from view each

composed ll, L as efficiently as possible? NOT a PPF!



Example (15 beld fixed) $q = 15^{0.5} \cdot 0.5$, suppose 15 = 25What is AP, when L = 16? $AP_{L} = \frac{20}{16}$

tis Ali when L=16! APL = L 16
= \funds/worker

Margined ProLed
-distance output produced as an injutio increased
by one unit MP = Ag (When Kis const in the S.r) => Mr= 2 w/ continos q(K, L) in our previous example (9 = 5L0.5) de 2.5 for any L 9 (15, 6) < S. R. → Ball in particular on the (-D prod. Known Gently, produke freshy:

spec diminity was MPE Spec di

Geard whe - Labor produtivity 1 a, stock of capital 2 rows In add fan - Technological change allows feeting of production to be und non efficiently Produke ul 2 input (Long Non) - cureshowing combin of ippts produce save beet of or put Isoquat; Long Run Predict. MRTS = MPK HPL = SE, HPL= TE Hargitel rate of technical substitution

Labor Produkty
-APc for an extre industry

Cobb - Douglas Pashulan Fredom q=AKalB, Oca<1,06B<1 Perfect Substilles q=als+bl, MRTS= (Leon to from from) 9 = Min(a K, bL)

A) at
$$100 = K$$
 and $100 = L$:

 $MPL = \frac{32}{7L} = \frac{5}{1L} = \frac{1}{2}$