Growth rate of Ye/LE IS 1/2 = 42 Kx (h2 L2)1-0 2 (the growth rate in In the Solow model, we productivity) write this in per-effective · 2 (and A) are determined worker terms:  $y_t = \frac{y_t}{z_{t-t}}$   $(z_t = A_t)_{t-\infty}$ exogenously In other words, 2 15 We find a steady state determined by the 5 = 3 +1 = 3 +1 = ... = 955 economist, not the But if ye is constant, model (it's an input and Zt is growing, to the model, not an Then Yt/LL is also output) growing at the steadyEndogenous Growth · For simplicity, let's assume constant capital (imagine · What causes Az to vere at the steady grow, and what are state level of capital) the implications? · Production function: · Too types of Jobs in Y<sub>E</sub> = A<sub>E</sub>L<sub>Y</sub> the economy. Workers either: only output workers produce output 1. Producing output (Y) 2. Producing "ideas" (R&D) of ssume that a constant ideas make the output proportion of workers workers more productive L=Ly+LA are LA type Total workers = output + ideas workers LA = 8AL

L=Ly+
$$L_A$$

L=Ly+ $V_A$ L

L= $V_A$ L=Ly

L(1- $V_A$ )=Ly

Plug this into the production

Function:

Y=A L(1- $V_A$ )

Per-norker terms:

Y=A(1- $V_A$ )

Y=A(1- $V_A$ )

Producing I deas (A)

Result: If the ideas market

MA = the price of coming is monopolistic, then higher up with new ideas growth can be achieved

