Problem Set 7 Thursday, 2 November 2017 1. Baseline, first-best': if chere's ne asymmetrie info. - leading to good projects, funding is scarce, => $\Gamma_D^{\perp, \mp 5} = g$. first-best interest charged by invertors, invertors take all Pay > R > Pay+B - moral hassard, to such shall enterpreneurs are induced to choose good project $Pa(J-I_{\overline{o}}) \geq PB(J-I_{\overline{o}}) + B(IC-\overline{o}) comp.$ return from good return from bad of entire. $\int_{0}^{1} \leq 3 - \frac{B}{\rho_{a} - \rho_{B}} = 3 - \frac{B}{\Delta \rho} < \rho_{o}^{I, FB}$ Participation constraint (PE-I) inf. rent PG TO > RLD volume ef landing to che entreprenent Lo & Parp split between entre.
and investors For entrepreneurs starting with A $A + L_D \geq I$ $\rightarrow A \geq I - LD = I - \frac{P_{\alpha}}{R}(y - \frac{B}{\Delta p})$ Only "well-capitalized" entr. can directly borrow. y = [B + [B + [B] - banking solution for banks for invertors inf. rent. for entre. IC- E. incentire comp. constraint for entre. PG PB PB + 6 return fran good proj. retura from bad TB = 7 - TB - TB $\Rightarrow \qquad \Gamma_{\mathcal{B}}^{\mathcal{B}} + \Gamma_{\mathcal{B}}^{\mathcal{I}} \leq \mathcal{J} - \frac{b}{a}$ Bank — moral hazard not observed by investors

monitor — cort C if bank "shirks", it will

save the cort C.

1C - Bank incentive comp. constraint for bank moral
hazard! PGTB-CZPBTB return from mon. refora from 10-100. $= \frac{C}{P_{B}} = \frac{C}{P_{B} - P_{B}} = \frac{C}{ap}$ Participation constraints: PC - Inv. leading provided by PG FB ? RLB => (LB) \(\frac{PGFB}{D} \) PC - Bank

Park

Inding provided by Brown

B = B = B = LB = PG(B)

IC - Bank IC-Bank
PC-Inv. => LB = Pa (y - 6+C) PC - Bank For entr. with with wealth A A + LB + LB ? I $A \geq I - L_B - L_B = I - L_B - \frac{P_G}{R} - (g - \frac{b + C}{\Delta P})$ $\equiv A(\beta, R)$ $\langle A(R)$ C is not too big A ~ u(o, 1) no funding banking torrow directly A(R) A(B,R) O A' A(B,R) Ā(R) $\frac{\partial \underline{A}}{\partial R} = \frac{P_G}{R^2} \left(y - \frac{b+c}{Ap} \right) > 0$ $\frac{\partial \overline{A}}{\partial R} = \frac{P_G}{R^2} \left(y - \frac{B}{Ap} \right) > 0$ $R \downarrow$ $R \downarrow$ $R \downarrow$