$GCd(a,b) = a_1^{\min(P_1,P_1)} a_2^{\min(P_2,P_2)}$ (2 min(Pz 1 Px)
(2 max(Px, Px) b, 9 b, 92 $lam(a,b) = a_1 max(P_1,P_1) \frac{1}{a_2} max(P_2,P_2)$ by by CS1232 .. Cosz Notice, gcd(a,b). lcm(a,b) = a.b · To divide a natural number N by the natural number m with a remainder means to represent N as N= km+r, where QKr/m. The number n is the remainder when N is the divided by m.
I very poverful). Lemma on Remainders: The sum/product of any two natural numbers has the sum/ product of their remainders. $N_1 = 3K_1 + P_1$ $N_2 = 3K_2 + P_2$ 00 0 < P_1 < 3 0 < P_2 < 3 N+N2= 3(K+K2)+(P+P2) 17/+N2=3(K1+K2+K)+10 Now, (P,+P2)= 3K+p Oxp63 N1. N2 = 9K, K2+ 8K, P2+ 3K2P,+ P, P2 P₁·P₂=3K+r Cxxx3 7N₁·N₂=3(3K₁K₂+K₁P₂+K₂P₁+K)+r Here, the no. 3 can be changed to any other no, the same proof fallows Prob 15: Find the remainder which a) the number 1989.1990.1991 +1992° gives when divided by 7 7.185 1990 ... 1990 - 1991 gives permotorial