(9-3) We have Pr (G= K/x=n) = exp (Bro + Br n) 1+ E exp(Bio+BiTn) $V P \cdot (G = K \cdot | X = n) = \frac{1}{1 + \sum_{i=1}^{k-1} exp(\beta_{i0} + \beta_{i} T, n)}$ Now, \geq $Pr(G=k|x=n) = \sum_{k=1}^{K-1} Pr(G=k|x=n)$ + & Pr (4=K | x=n) + ··· + exp (B K+0+ B T m) 1+ 5 exp(Pio+3, Tm) 1+ 2 exp (B; + B; 7 m) let, É exp(Bio+PiTn) = Z

