Special Functions. 1000 EX-4 1(n) = n2 logn +n, Find Q(), Q(), IL(). ( ) un 1 = 2000  $C(1.9(n)) \leq f(n) \leq C(2.9(n))$ (109220 m3) 1x n2logn < n2logn+n < 10/2/10gn An72 : f(n) = ()(gn)) (m) = ( (n2 logn) 1001= 0 ( n2 logn) 1(n)=-12(n2logn) 2 /(n)=n! Find O(), O() &\_1();  $n = n \times (n-1) \cdot (n-1) \cdot x$ Ci.gus & g(n) & (2.9(n) IXIXI--XI. < (IXXXX .... x n) & nxnxnx--xn. 1 ≤ n ! ≤ n ~ (4) :. \(n) = \(O(n)^A) J(n) = 1 (1) But f(n) = n! don't have tight bound O(9/m) Since, gm donot emist an RHS 4 LHS in egm (A)