PS7 Q8; The general solutions of Laplace equation in polar coodinate is  $U(r, \theta) = Cot Do Inr + \sum_{m=1}^{20} (Cmr^m + \frac{Dm}{rm}) (Amcosm\theta + Bmsinme)$ plug in the 2 boundary conditions, we get by observation" that the anstart term has to agree, i.e.  $J = G + D_0 \cdot [n] = C_0$  $J = G + D_0 \cdot [n] = G + D_0$  $C_0 = (, D_0 = 2)$ 50 => Next, becase there are only SIND ferms on the boundary data. Using the fact that sin(mo) are independent, we must have.