You need to start with the Poisson equation Problem 3/ that governs the electric potential (lap $= -\left(2 \operatorname{Many}\left(1 - \frac{r^2}{2^2}\right) + \beta\right) = \frac{2}{2} \operatorname{(phi)} = \operatorname{div(uxB)}. \text{ Then}$ apply separation of variables wrt r and theta and finally V = 2 Mary B) (1- 22) dy integrate. You missed the Poisson equation = 2 Mary B (y - 322)+C to start. This was for 4=Rass important. V= 2 Mary B (Reo, 0) = 2 Reos 0 V= Zuang BR (cos 0 - 2 cos 30)+c b) for A: 0 = 180° V=2 × 10 × 1× 10 (005180°- 20058180°)+C Por B: 0 = 0° Right idea, but incorrect formula to start.

VB-2-100 × 1+100 × (4030°- 120530°) 46
VB-2-100 × (4030°- 120530°) 46

VB-VA=0.026V