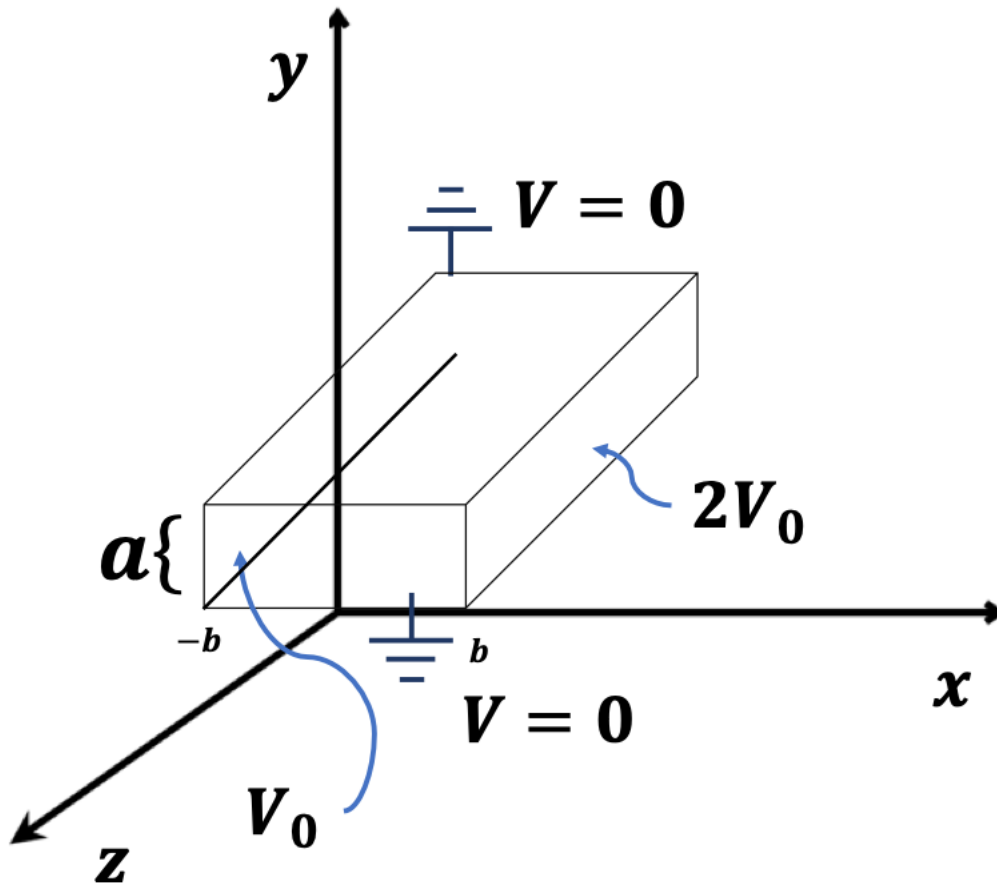**Phys331/Homework #4**
Due on Wednesday 28/4/2021

1) Two infinitely long grounded metal plates, again at $y = 0$ and $y = a$, are connected at $x = \pm b$ by metal strips maintained at a constant potential $V0$ and $2V0$, respectively. Find the potential inside the resulting rectangular pipe

2) A sphere of radius R divided into two hemispheres by a horizontal plane. The upper hemisphere is maintained at potential V_0, while the lower hemispheres is maintained at zero potential. Find the potential outside and inside the sphere.