## EE214000 Electromagnetics, Fall 2020

Your name:	ID:	Oct. 26th, 2020

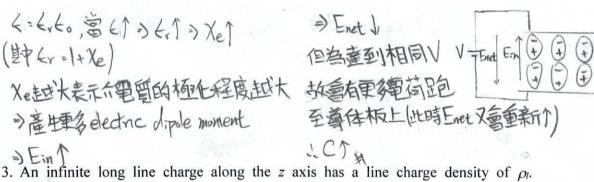
EE214000 Electromagnetics, Fall, 2020 Quiz #7-2, Open books, notes (15 points), due in class, Monday, Oct. 26st, 2020

1. What are the electrostatic boundary conditions between a dielectric/ideal conductor interface. Denote the dielectric and the ideal conductor as materials 1 and 2. respectively. (5 points)

2. Given S and d in the following expression for a parallel plate capacitor,

$$C = \frac{\varepsilon S}{d}$$
,

create a physical picture to explain the larger  $\varepsilon$ , the larger C. (5 points)



Calculate the voltage difference  $V_2(r_2,\phi_2,z_2) - V_1(r_1,\phi_1,z_1)$ . (5 points)