1)
$$\xi_0 = 100(V)$$

 $\xi_0 = 100(V)$
 $\xi_1 = -5.15^{10}(C/m^2)$
 $\xi_1 = 2$
 $\xi_1 = 2$

$$D_{N1} = P_{S} + D_{N0}$$

$$2 \mathcal{E}_{0} = F_{1} = \mathcal{E}_{S} + \mathcal{E}_{0} = 0$$

$$E_{1} = \frac{\mathcal{E}_{0} = 0 + \mathcal{E}_{0}}{2 \mathcal{E}_{0}} = \frac{100 \mathcal{E}_{0} + (-5.10^{\circ})}{2 \mathcal{E}_{0}} = \frac{21110}{2 \mathcal{E}_{0}} = \frac{21110}{2 \mathcal{E}_{0}}$$

2)
$$|\vec{b}| = \mathcal{E}_0 \mathcal{E}_R |\vec{E}| = 8.85.15^{12}, 225.15^4 = 7.257.15^5 (C/m^2)$$
 $|\vec{p}| = \mathcal{N}_0 \mathcal{E}_0 |\vec{E}| = 254.8.85.15^{12}.10^4 = 2.25.15^5 (C/m^2)$
 $V = |\vec{E}|.d = 10^4.15^3.15 = 15(V)$

$$\tilde{E} = -\vec{\nabla} V = -\vec{\alpha}_{2} \frac{\partial}{\partial z} \left(\frac{\alpha \beta_{L}}{2 \xi_{0} \sqrt{a^{2} + z^{2}}} \right)^{2} = -\vec{\alpha}_{2} \frac{\alpha \beta_{L}}{2 \xi_{0}} \frac{\partial}{\partial z} \left(a^{2} + z^{2} \right)^{1/2} =$$

$$\tilde{E} = -\vec{\alpha}_{2} \frac{\partial}{\partial z} \frac{\alpha \beta_{L}}{2 \xi_{0}} \left(-\frac{1}{z^{2}} \right) \left(a^{2} + z^{2} \right)^{3/2} \cdot 2z = +\vec{\alpha}_{2} \frac{\alpha \beta_{L}}{2 \xi_{0}} \frac{z}{\sqrt{a^{2} + z^{2}}} \cdot \frac{z}{\sqrt{a^{2} + z}} \cdot \frac{z}{\sqrt{a^{2} + z^{2}}} \cdot \frac{z}{\sqrt{a^{2} + z^{2}}} \cdot \frac{z}{\sqrt{a^{$$