

1-  $C = \epsilon_0 \frac{S}{d} = 44,25 \text{ pF}$

2-  $Q_A = CU = +265 \text{ pC}$   
 $Q_B = -Q_A = -265 \text{ pC}$

3-  $E = U/d = 3000 \text{ V/m}$

4-  $W = \frac{1}{2} CU^2 = 7,965 \cdot 10^{-10} \text{ J}$