



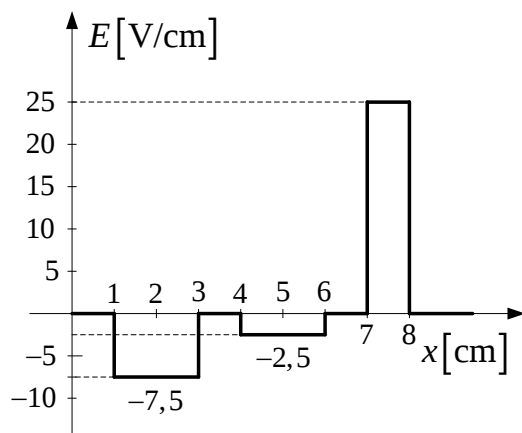
ИСПИТ ИЗ ОСНОВА ЕЛЕКТРОТЕХНИКЕ 1

19. 10. 2017. - Рјешења

1.

- a) (1) $A_{AC} = -400 \text{ nJ}$,
(2) $A_{BC} = 0$,
(3) $A_{DE} = 400 \text{ nJ}$
(4) $A_{BD} = -600 \text{ nJ}$
(5) $A_{AE} = -600 \text{ nJ}$

б)



2.

- a) $\rho_0 = 2,28 \frac{\text{nC}}{\text{m}^3}$.
б) $\vec{F}_{\Delta Q} \approx 108 \vec{i}_y \text{ pN}$.

3.

$$R_x = 6 \text{ k}\Omega, \quad R_y = 4 \text{ k}\Omega.$$

$$|I_{R\min}| \approx 0,82 \text{ mA}.$$

4.

- a) $I_{g8} = 90 \text{ mA}$.
б) $P_{E8} = -405 \text{ mW}$.