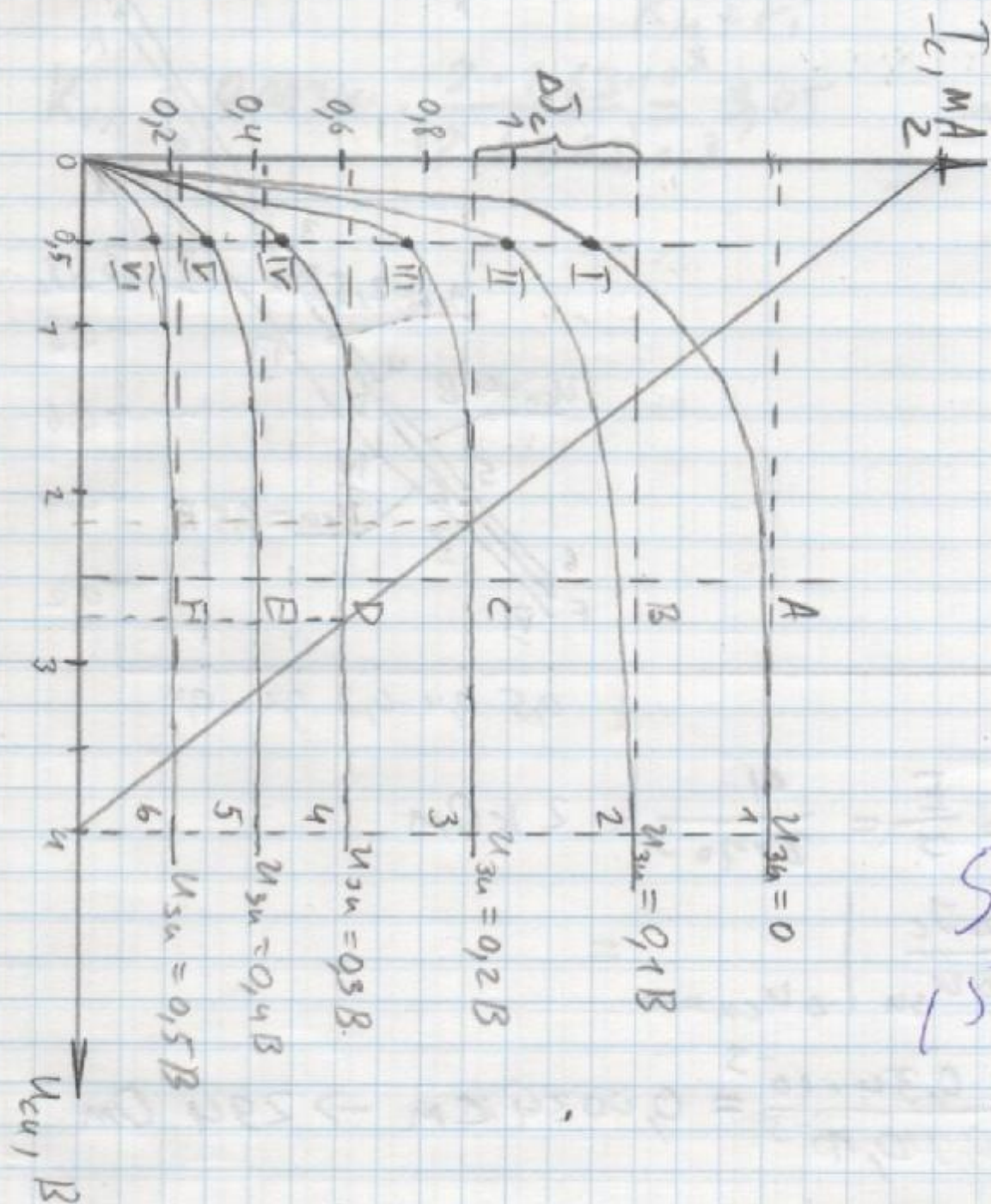
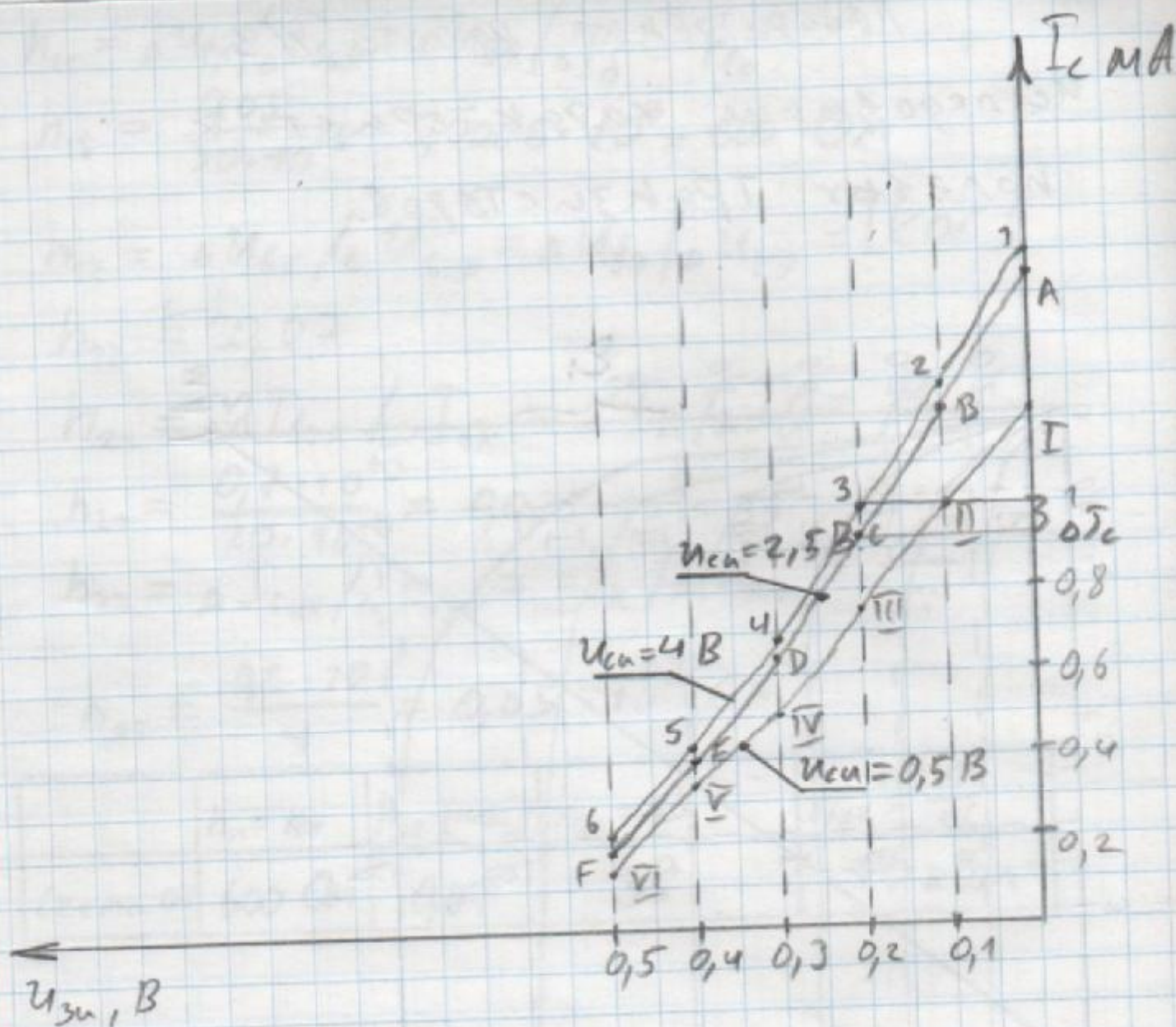


Лабораторная работа №3 исследование характеристик полевых транзисторов.



80.58:51
 5



$$R_n = \frac{E}{I_c} = \frac{4}{2 \cdot 10^{-3}} = 2 \text{ k}\Omega$$

$$S = \left. \frac{\Delta I_c}{\Delta U_{ce}} \right|_{\Delta U_{ce} = 0} =$$

$$S = \frac{0.34 \cdot 10^{-3}}{0.1} = 0.0034 \text{ A/V} \rightarrow 294 \text{ }\Omega$$

$$r_i = \left. \frac{\Delta U_{ce}}{\Delta I_c} \right|_{\Delta U_{ce} = 0}$$

$$r_i = \frac{1.5}{0.92 \cdot 10^{-3}} = 1.63 \text{ k}\Omega$$

$$K_{VT} = \frac{\Delta U_{60x}}{\Delta U_{30}} = \frac{\Delta U_{CH}}{\Delta U_{30}} = \frac{0,6}{0,1} = 6$$

$$K_{VA} = S(R_H \parallel r_i) = S \frac{R_H \cdot r_i}{R_H + r_i}$$

$$K_{VA} = 0,0034 \cdot \frac{2 \cdot 1,63 \cdot 10^3}{(2 + 1,63) \cdot 10^3} = 3,05 \text{ m}$$