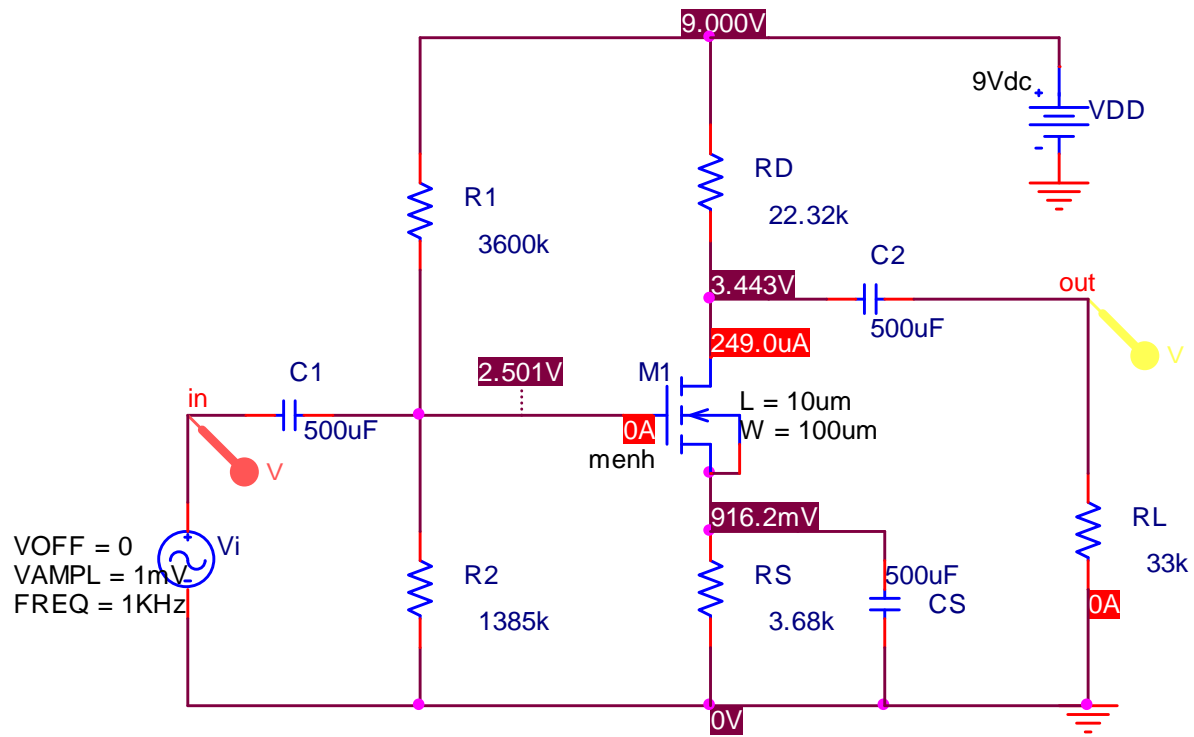


CAD Assignment 3:



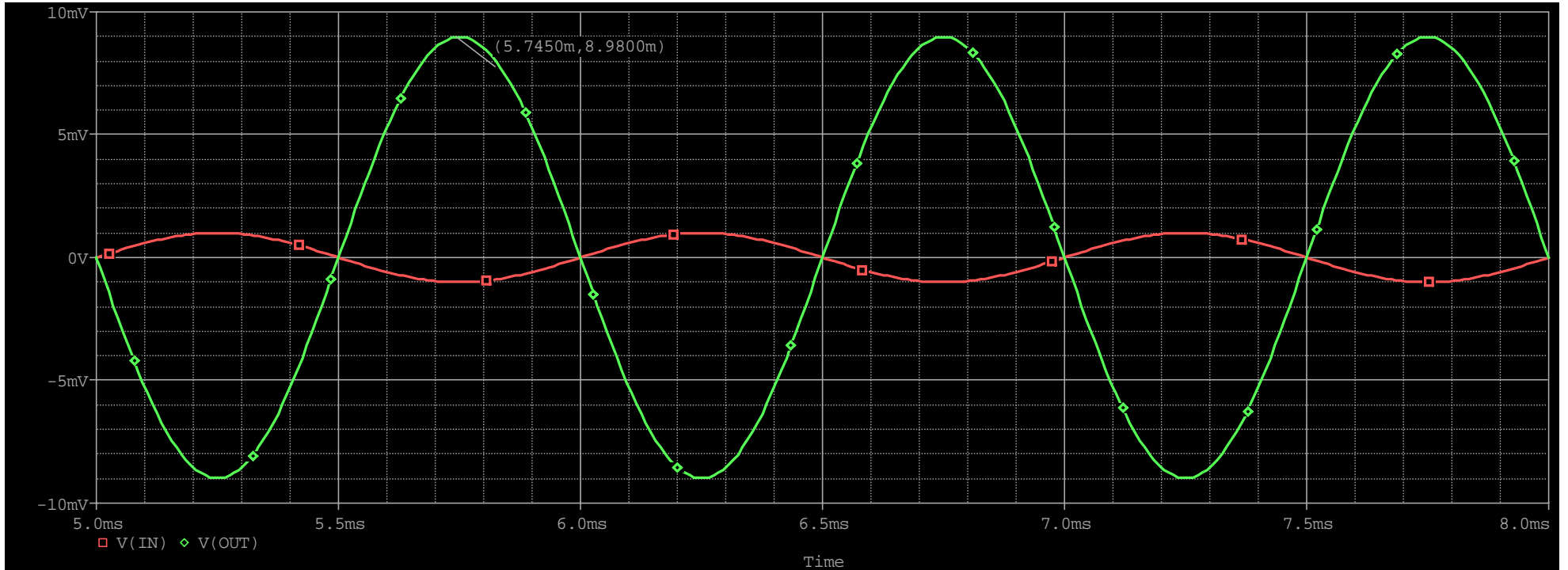
$$I_D = 249\mu A \approx 0.25mA$$

$$V_{DS} = V_D - V_S = 3.443 - 0.9162 = 2.52V \approx 2.5V$$

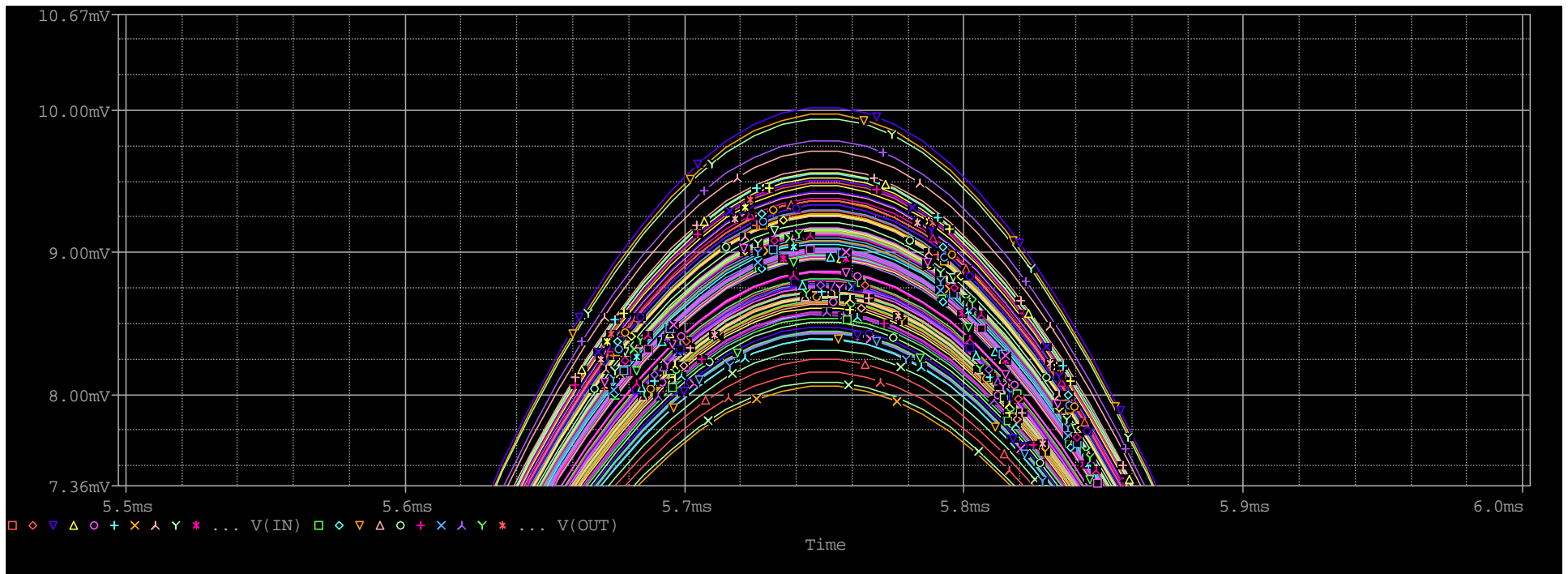
$$V_D = 3.443V; V_B = V_S = 0.9162V; V_G = 2.501V;$$

$$I_D = 249\mu A; I_G = 0A; I_S = 249\mu A; I_B = 0A;$$

$$V_{DS} = 2.52V; V_{BS} = 0V; V_{GS} = 1.585V$$



$$A_v = V_o/V_i = 8.98\text{m}/-1\text{m} = -8.98 \approx -9$$



V_o peak max = 10.02mV

V_o peak min = 8.1mV

$|A_v|$ max = 10.02 V/V

$|A_v|$ min = 8.1 V/V