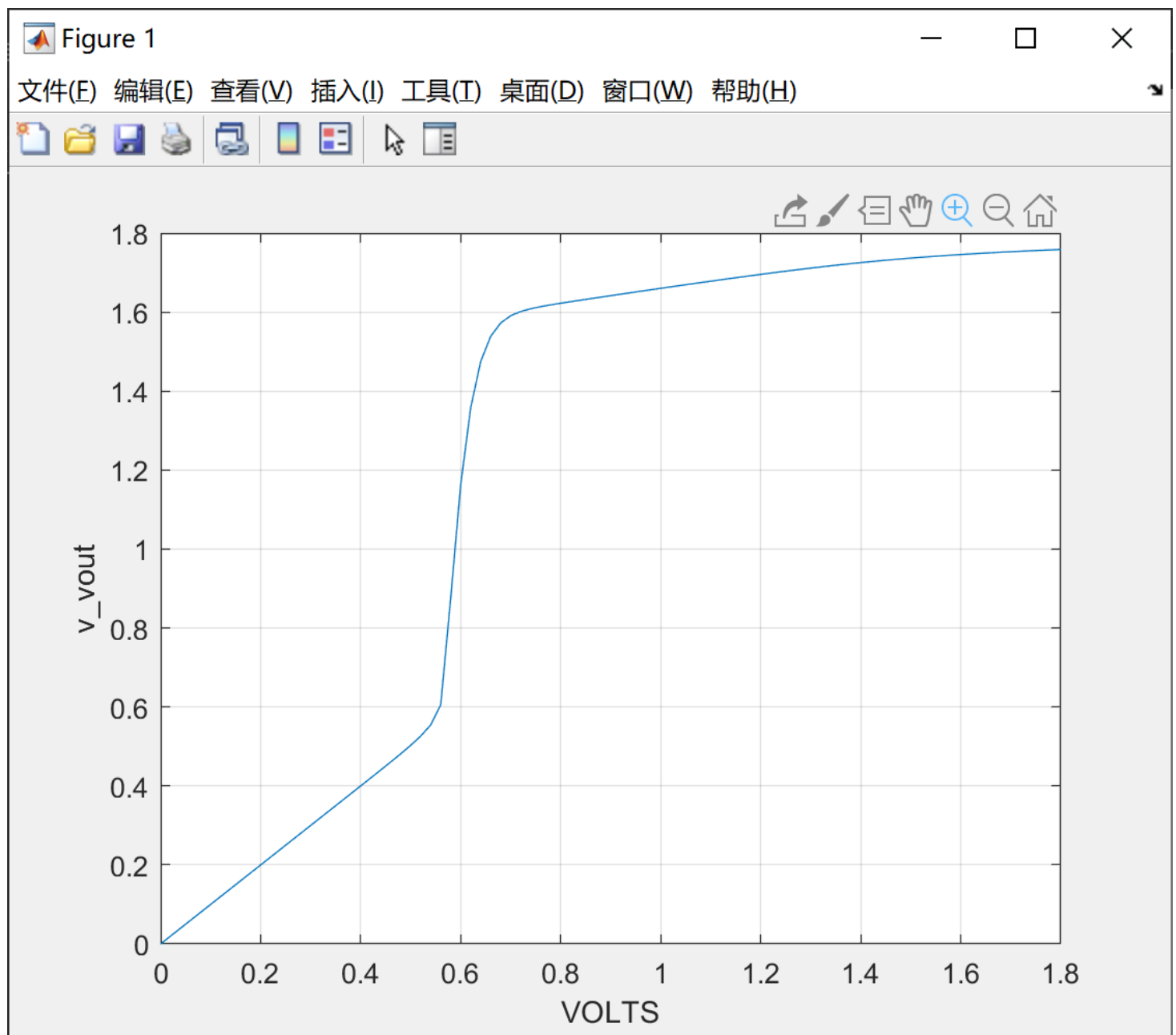


6.13

(1)

(a)



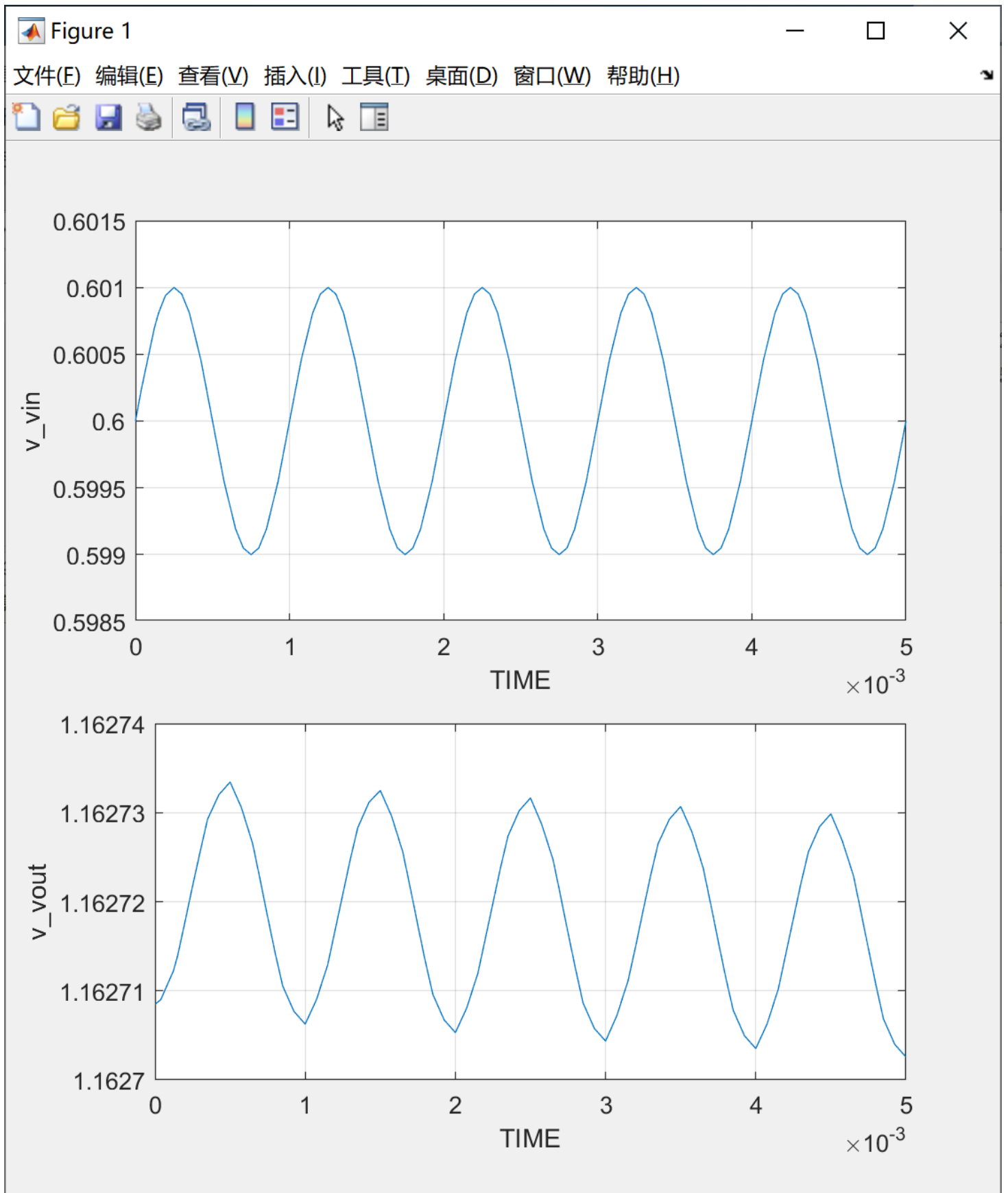
(b)

$$V_{DS1} = 2.8988mV, V_{GS1} = 200mV, I_{D1} = 5.5455pA$$

(c)

$$g_{m1} = 169.7475pS, g_{ds1} = 1.8420nS, C_{gs1} = 349.8917aF, C_{gd1} = 349.8707aF, R = 0.7052\Omega$$

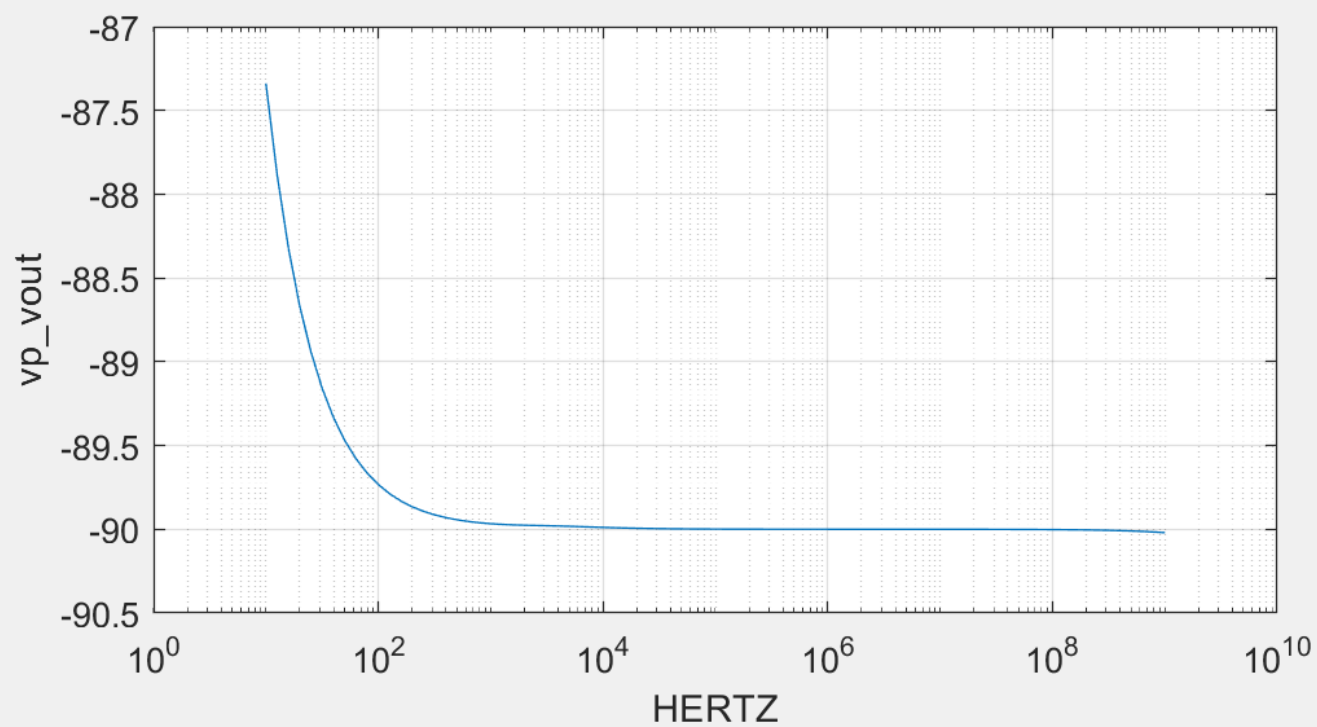
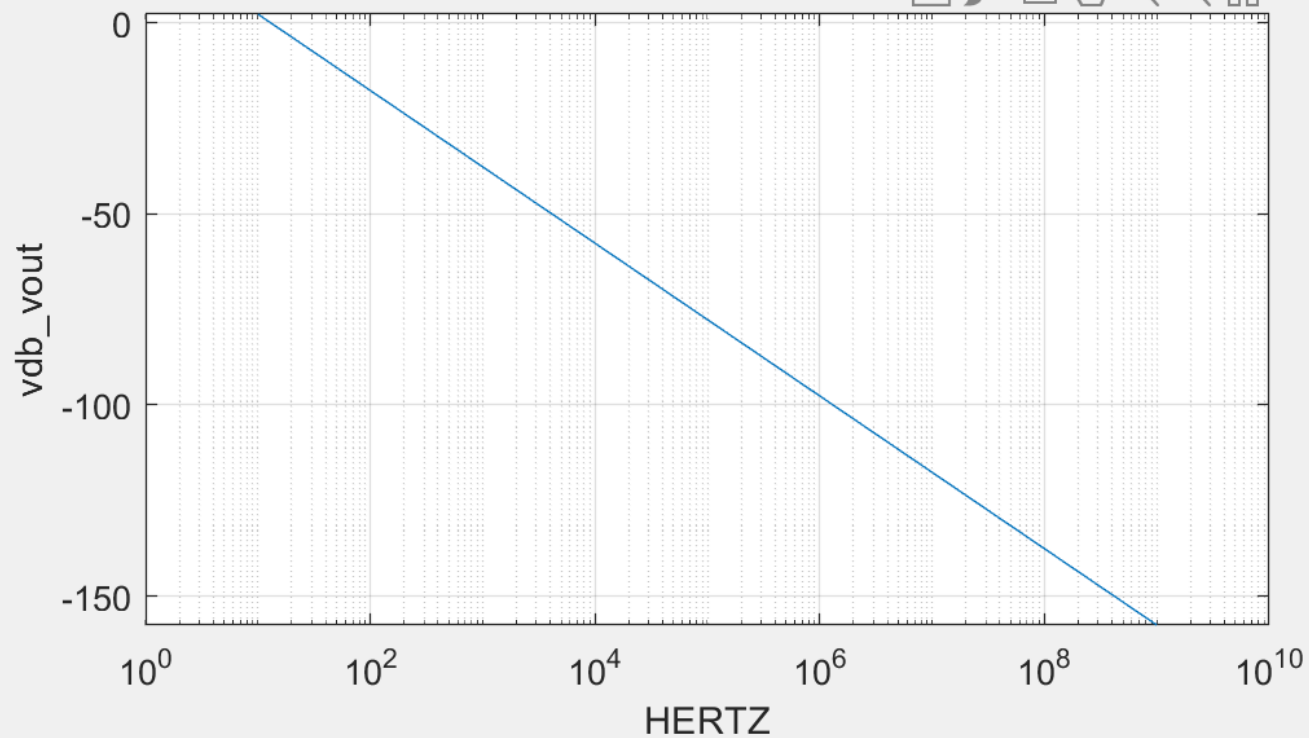
(2)



(3)

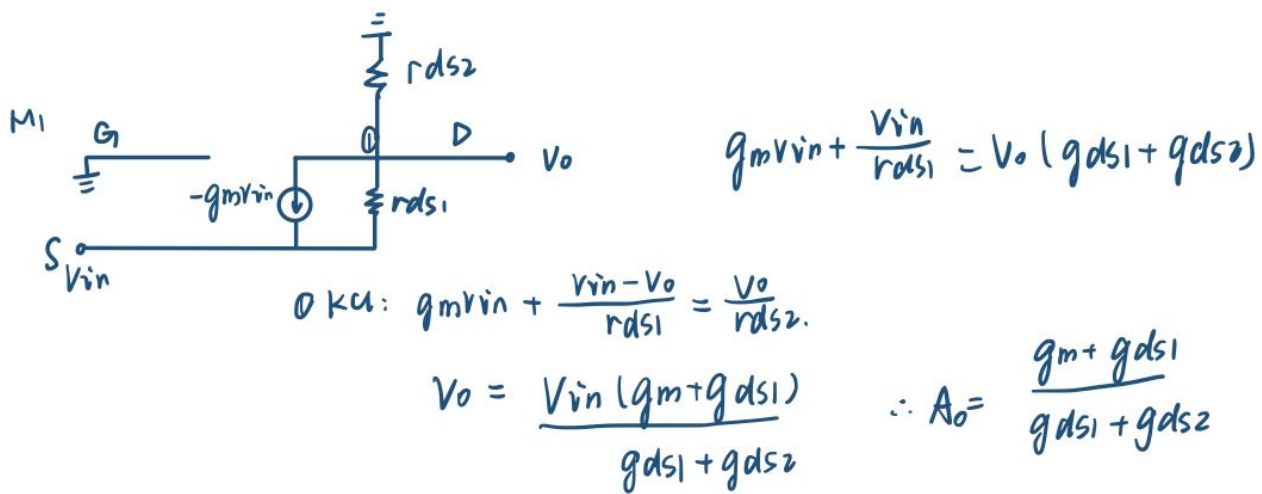
Figure 1

文件(F) 编辑(E) 查看(V) 插入(I) 工具(T) 桌面(D) 窗口(W) 帮助(H)



6.14

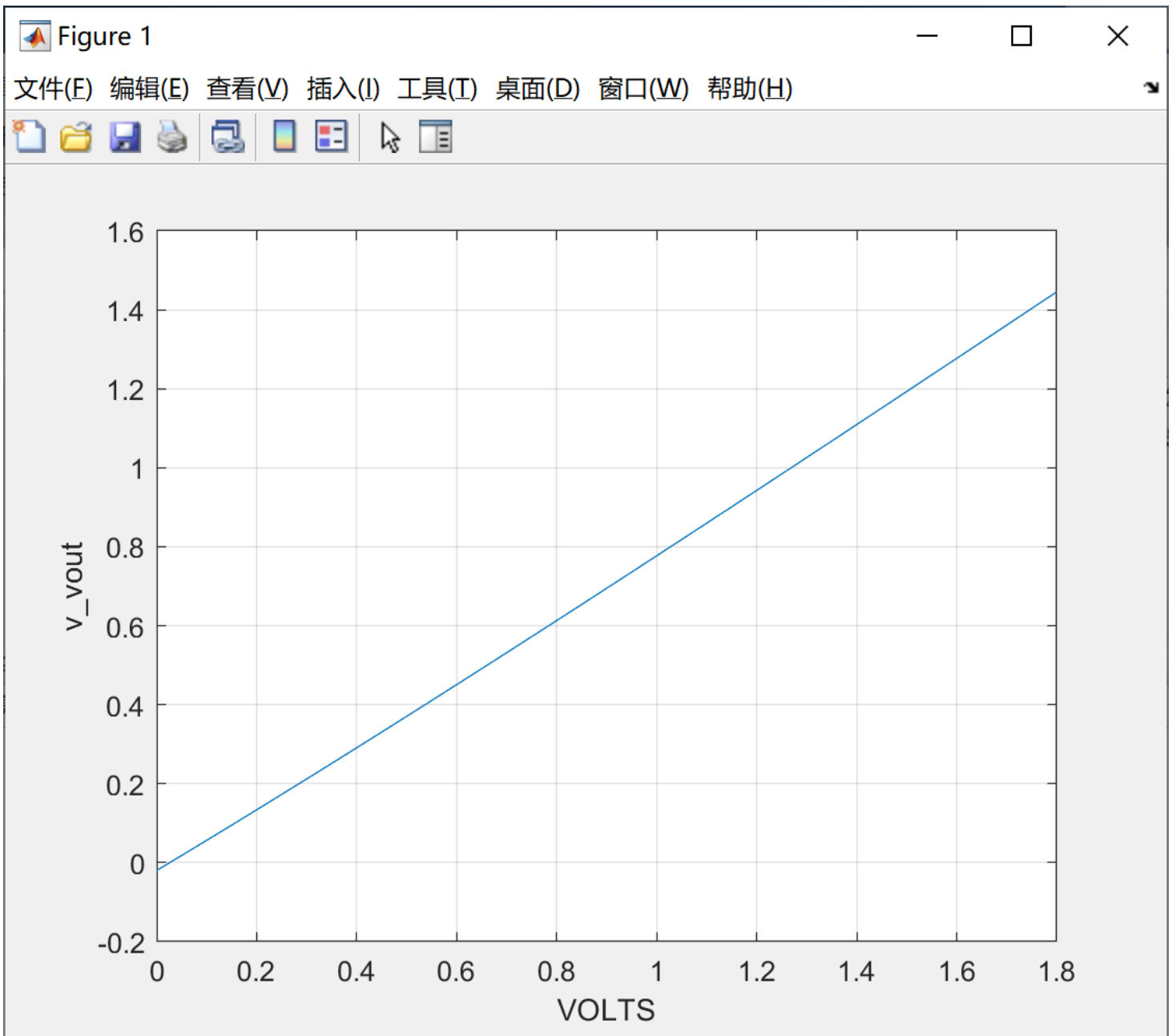
(1)



6.15

(1)

(a)



(b)

$$V_{DS1} = 1.4294V, V_{GS1} = 129.3699mV, I_{D1} = 36.7917pA$$

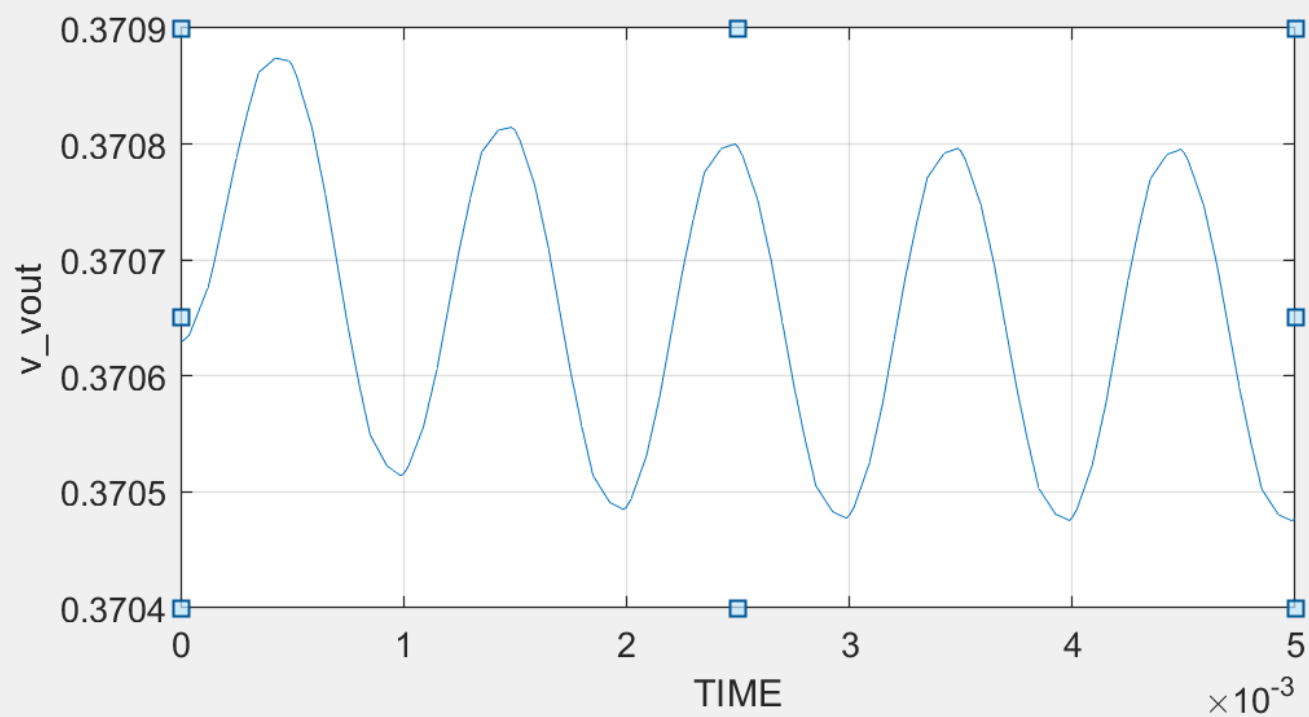
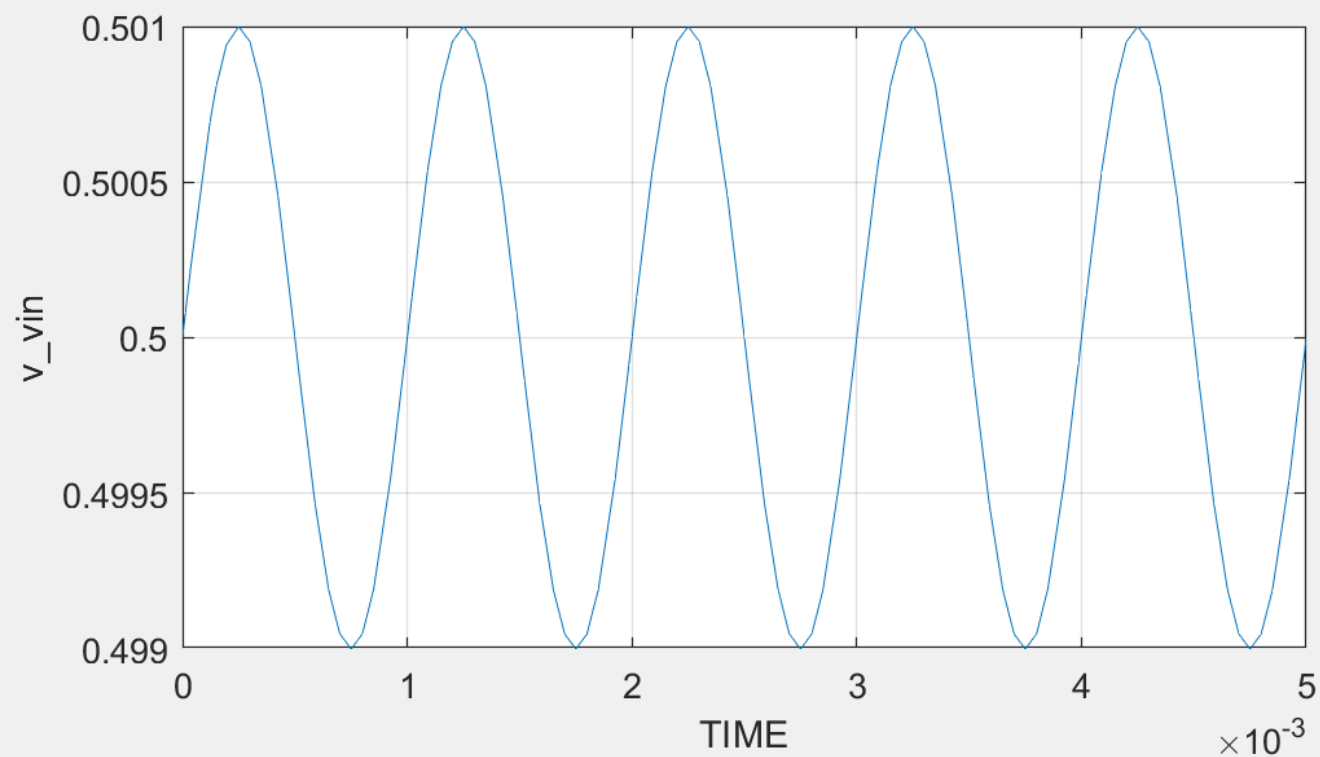
(c)

$$g_{m1} = 1.1127nS, g_{ds1} = 23.0864pS, C_{gs1} = 141.6032aF, C_{gd1} = 141.5776aF, R = 0.1327\Omega$$

(2)

Figure 1

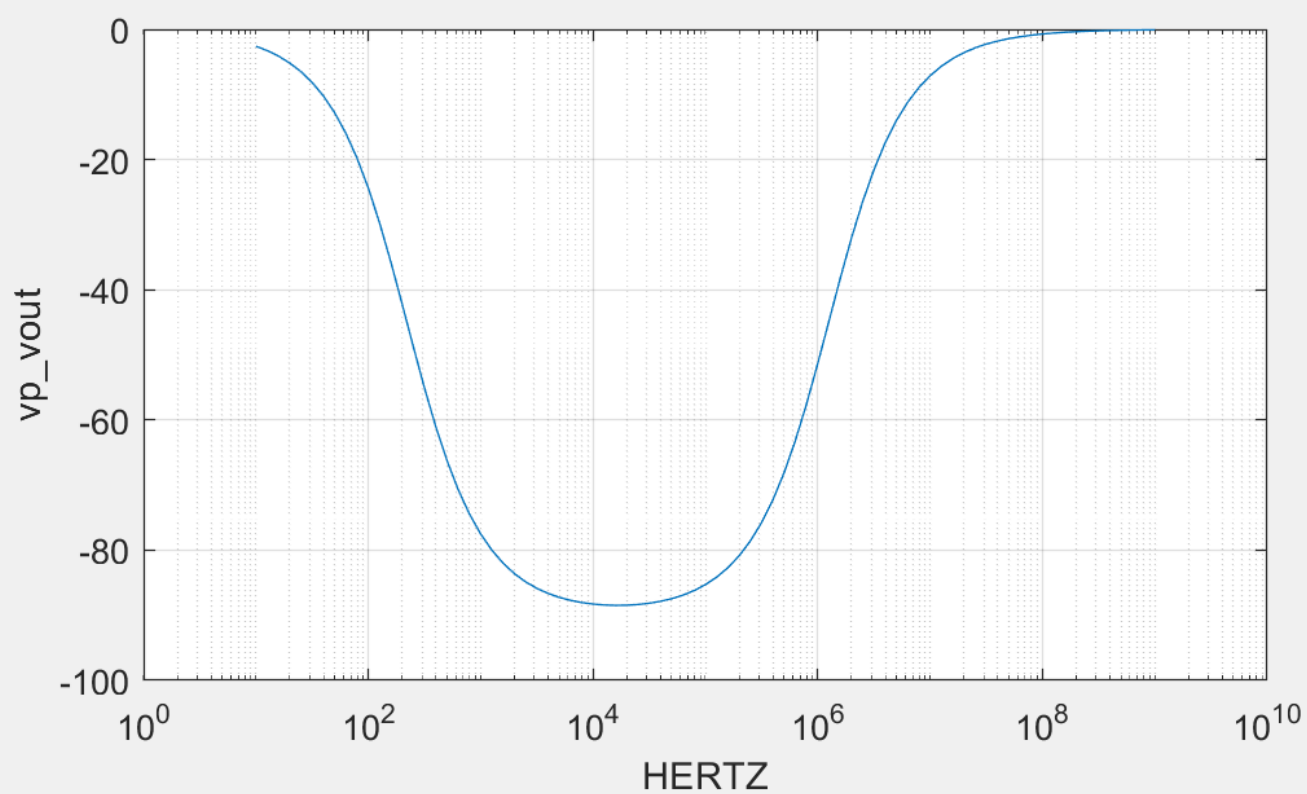
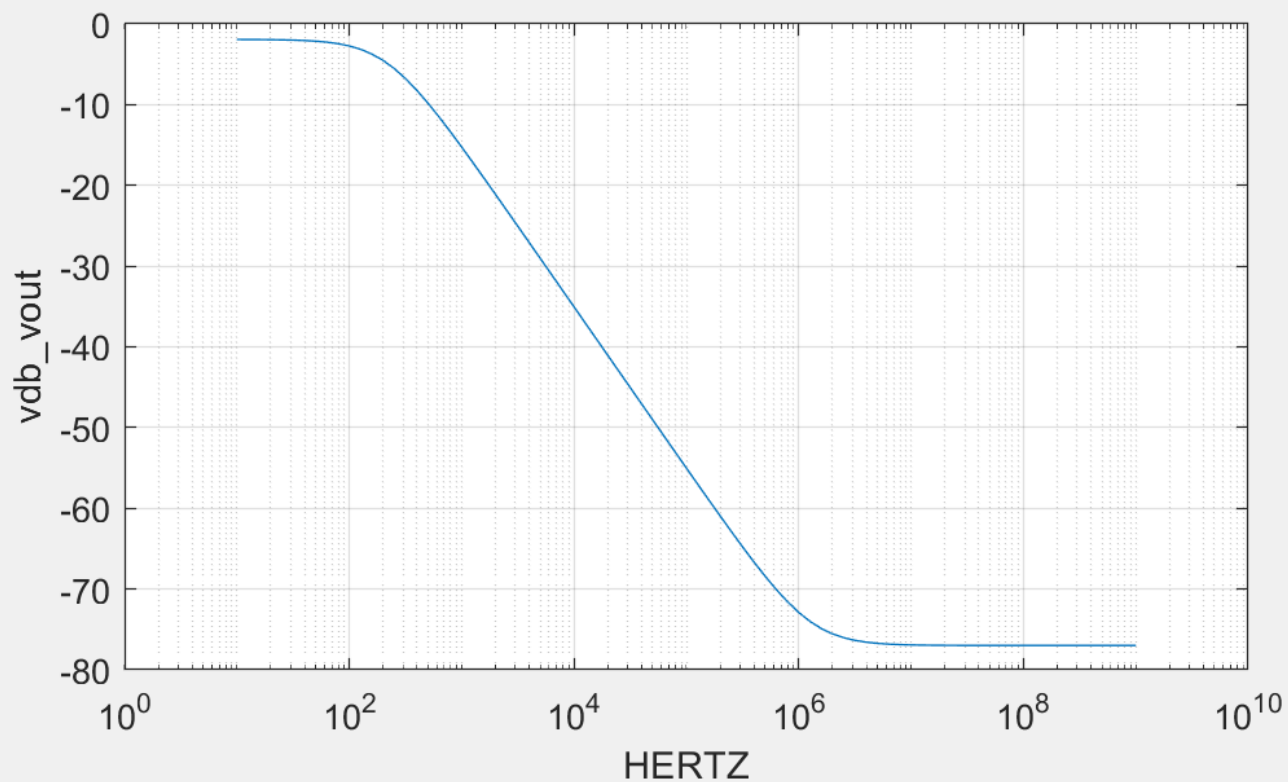
文件(F) 编辑(E) 查看(V) 插入(I) 工具(T) 桌面(D) 窗口(W) 帮助(H)



(3)

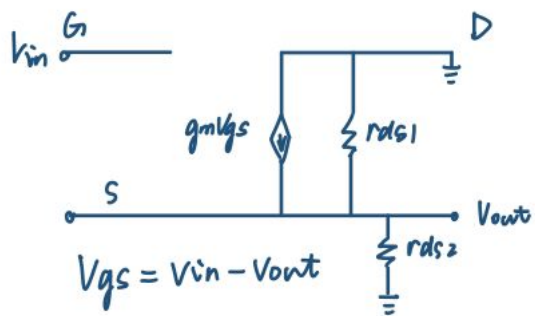
Figure 1

文件(F) 编辑(E) 查看(V) 插入(I) 工具(T) 桌面(D) 窗口(W) 帮助(H)



6.16

(1)

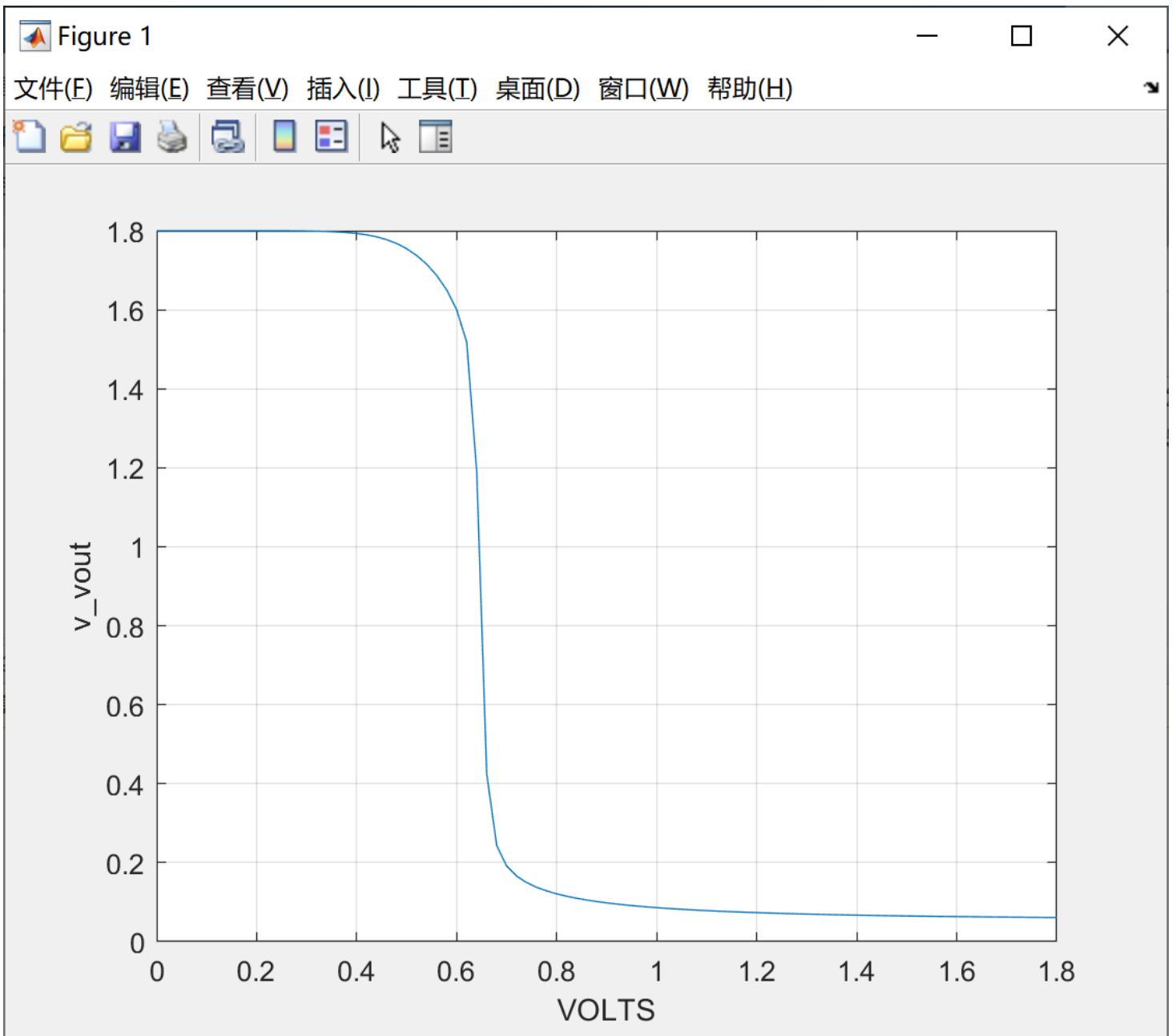


$$\begin{aligned} \text{KCL: } g_m v_{gs} - v_{out} (g_{ds1} + g_{ds2}) &= 0 \\ g_m v_{in} &= v_{out} (g_m + g_{ds1} + g_{ds2}) \\ A_o &= \frac{g_m}{g_m + g_{ds1} + g_{ds2}} \end{aligned}$$

6.17

(1)

(a)



(b)

$$V_{DS1} = 589.0093mV, V_{GS1} = 500mV, I_{D1} = 2.7624uA$$

$$V_{DS2} = 1.1655V, V_{GS2} = 610.9907mV, I_{D2} = 2.7624uA$$

(c)

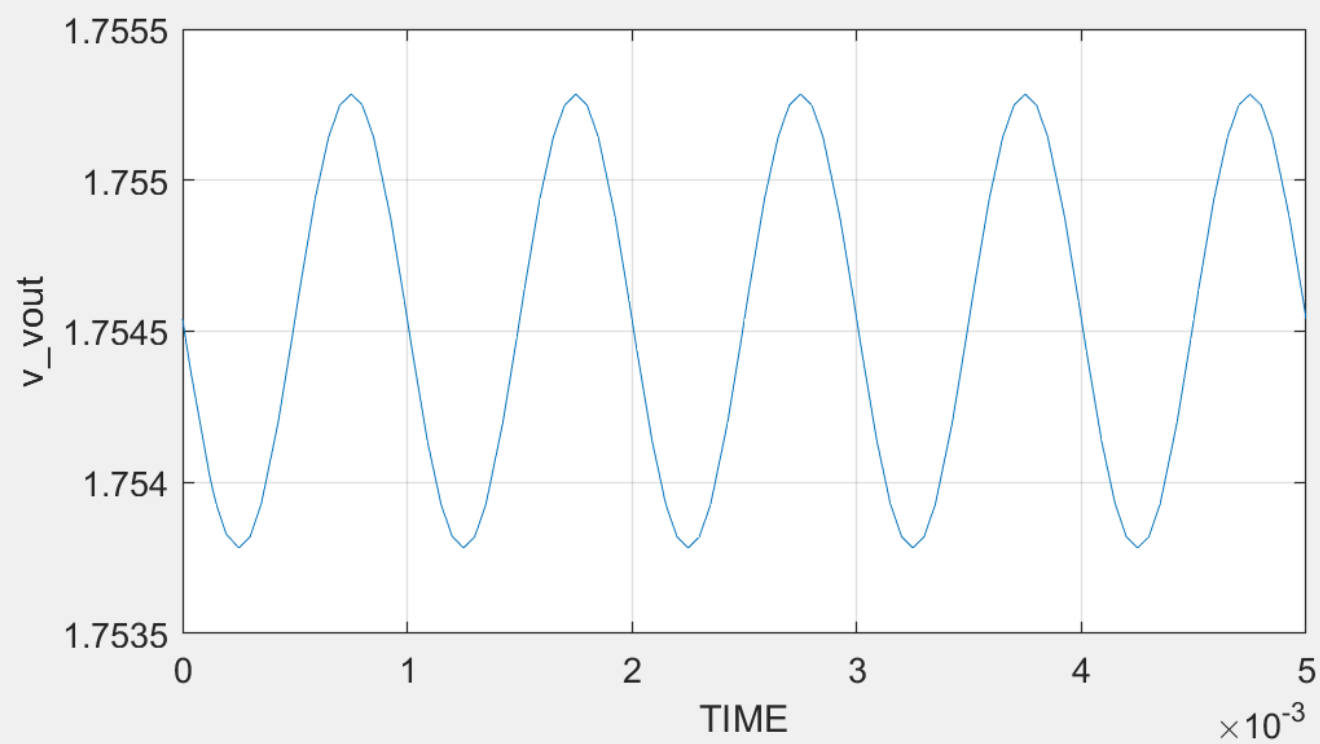
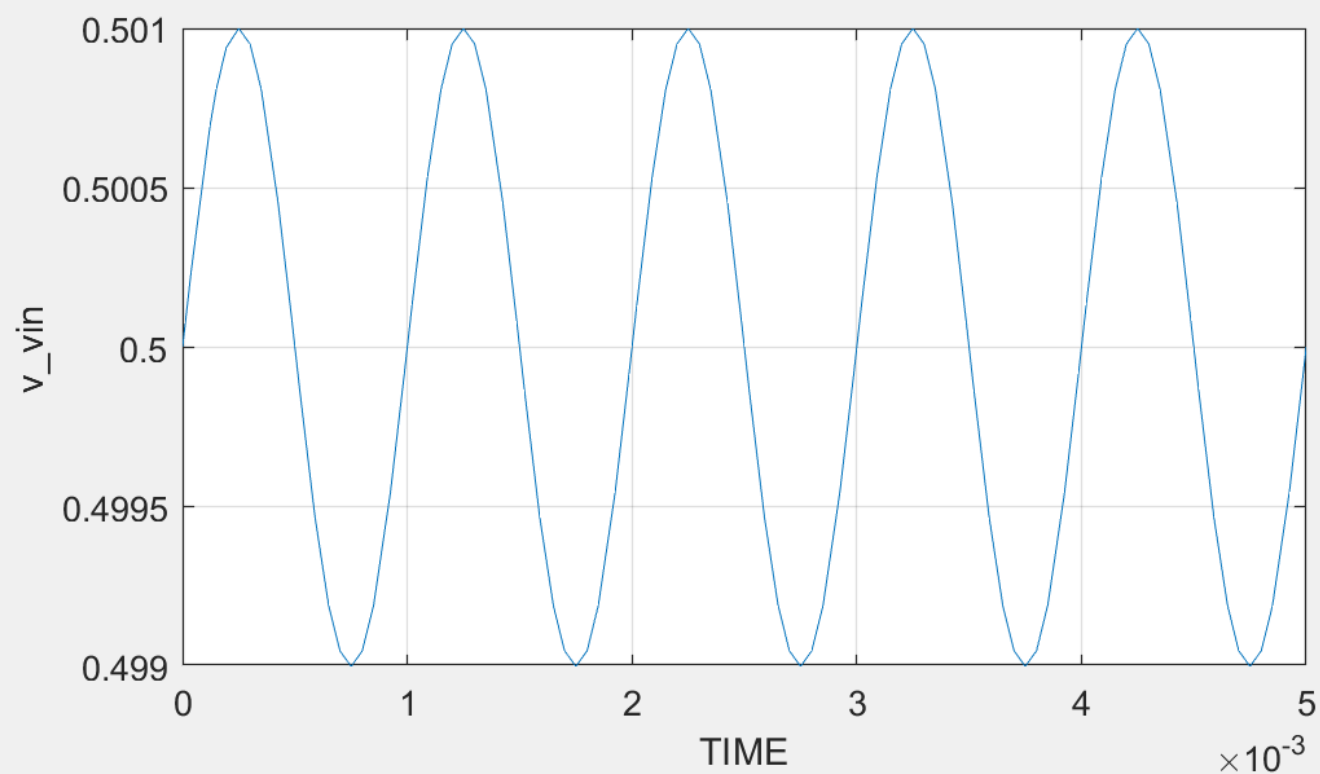
$$g_{m1} = 43.2643uS, g_{ds1} = 976.3089nS, C_{gs1} = 476.3285aF, C_{gd1} = 139.0567aF$$

$$g_{m2} = 44.0937uS, g_{ds2} = 1.0686uS, C_{gs2} = 461.8332aF, C_{gd2} = 137.4658aF$$

(2)

Figure 1

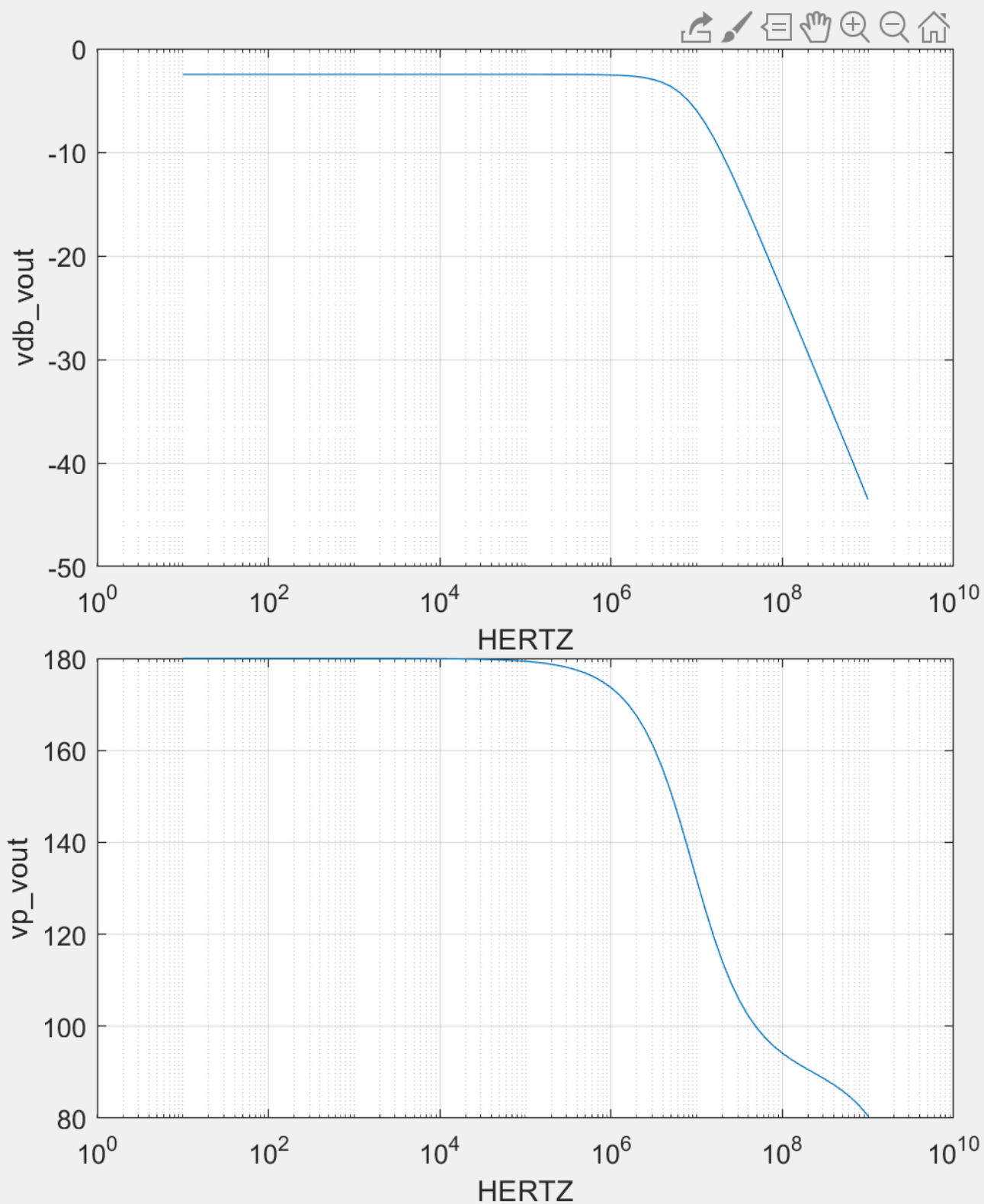
文件(F) 编辑(E) 查看(V) 插入(I) 工具(T) 桌面(D) 窗口(W) 帮助(H)



(3)

Figure 1

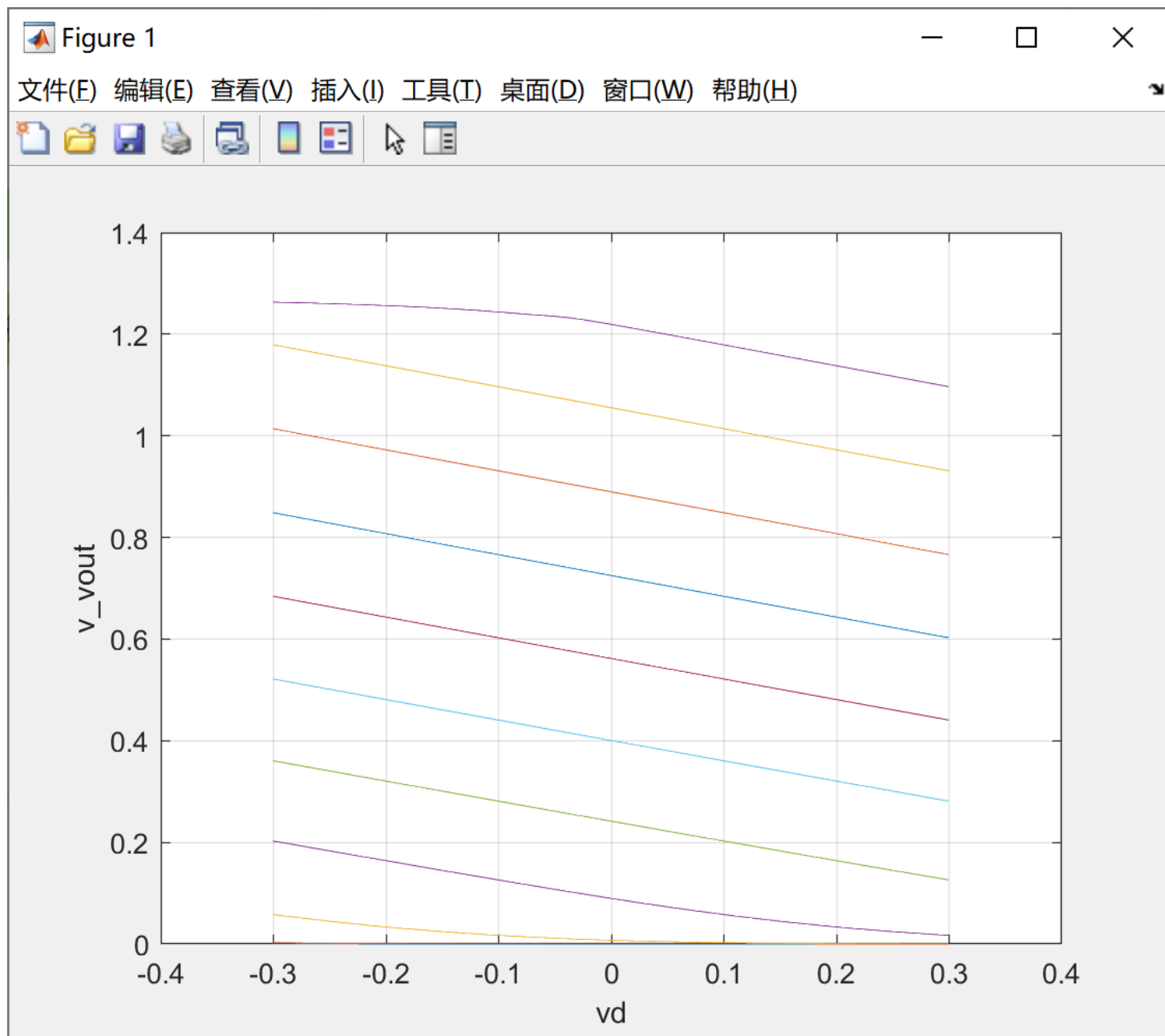
文件(F) 编辑(E) 查看(V) 插入(I) 工具(T) 桌面(D) 窗口(W) 帮助(H)



6.19

(1)

(a)



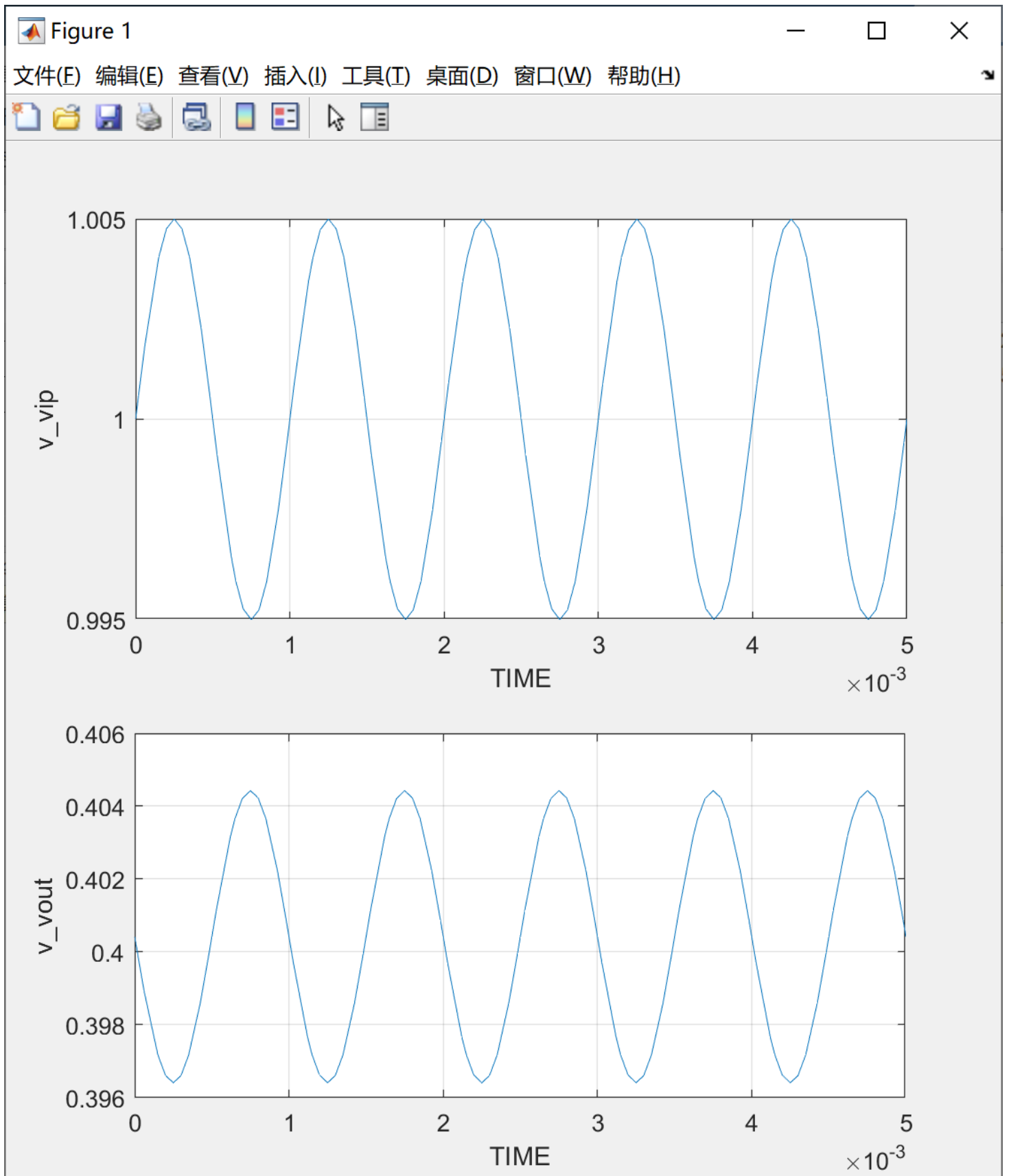
(b)

$$V_{DS1} = 1.4337V, V_{GS1} = 589.5860mV, I_{D1} = 5.0739\mu A$$
$$V_{DS2} = -2.6100nV, V_{GS2} = 689.5860mV, I_{D2} = -360.4110fA$$

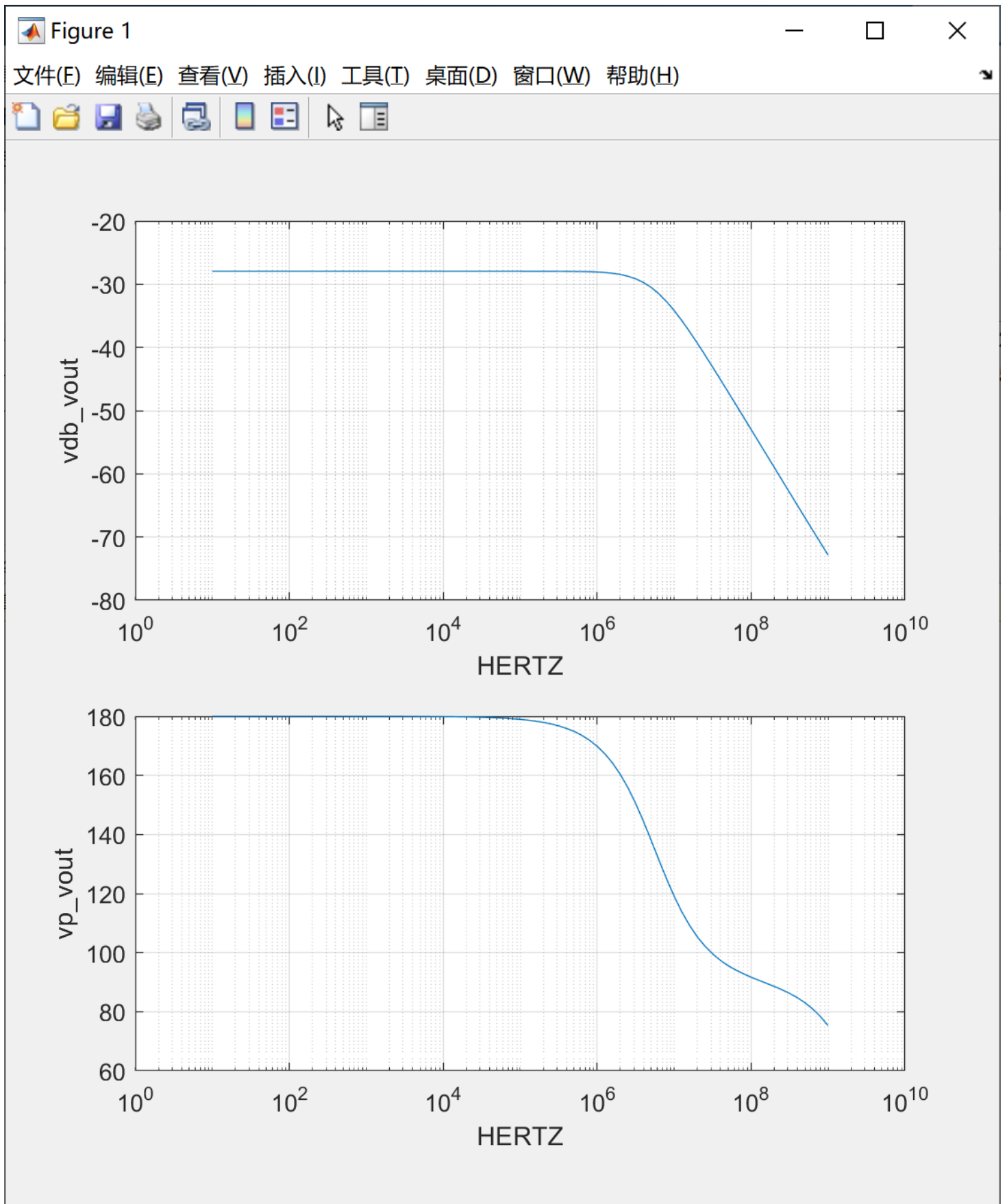
(c)

$$g_{m1} = 75.7565\mu S, g_{ds1} = 1.6412\mu S, C_{gs1} = 700.7659aF, C_{gd1} = 202.6333aF$$
$$g_{m2} = 2.4232pS, g_{ds2} = 138.2442\mu S, C_{gs2} = 553.2579aF, C_{gd2} = 641.7668aF$$

(2)



(3)



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