

NMOS is in the linear region.

$$V_{cn} = 1.2$$
,  $V_{sn} = 0$   $V_{csn} = 1.2 - 0 = 1.2$   $V_{Tn} = 0.39$ 

$$V_{LS0} \ge V_{T0}$$
:  $1.2 \ge 0.39$ 

$$V_{cp} = 0$$
  $V_{sp} = 1.2$   $V_{scp} = 1.2$   $|V_{Tp}| = 0.27$ 

nMOS is off

$$V_{sn} = V_{cn} = 0$$

$$V_{csn} = 0.39$$

$$V_{con} < V_{To} : 0 < 0.39$$