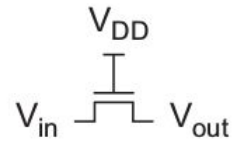


2.21 Suppose  $V_{DD} = 1.2\text{ V}$  and  $V_t = 0.4\text{ V}$ . Determine  $V_{out}$  in Figure 2.36 for the following. Neglect the body effect.

- a)  $V_{in} = 0\text{ V}$       **0 V**
- b)  $V_{in} = 0.6\text{ V}$       **0.6 V**
- c)  $V_{in} = 0.9\text{ V}$       **0.8 V**
- d)  $V_{in} = 1.2\text{ V}$       **0.8 V**



**FIGURE 2.36**

Single pass transistor