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SOLUTION : (a) When $V_{out} = V$

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Manual, $V_{in} = V_{DD} = 1.2V$, the driver transistor operates in linear region. Using Eq.(5.12) Since V_{OL} is small, V_{OL}/E_{cL_n} can be ignored. Using (5.17) Solve for W/L , (b) When $V_{in} = V_{IL}$, driver transistor operates in saturation region. Since V_{in} is slightly higher than V_{T0} , $V_{in}-V_{T0}$ can be ignored. Also $v_{sat} = E_C / 2$. Using Eq.(5.21)

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Microprocessors which operate with electrical signals representing ones and zeroes, each mosfet behaves primarily as a switch, with its gate serving to open and close a channel connecting its source and drain.

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