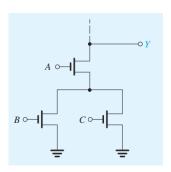
9.1 Find the PUN that corresponds to the PDN shown in figure 1, and hence the complete CMOS logic circuit. What is the Boolean function realized?



9.2 Provide a CMOS logic gate circuit that realizes the function $Y = \bar{A}BC + A\bar{B}C + AB\bar{C}$ How many transistors are required? Explore the possibility of reducing the number of the transistors required.

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- 9.3 The voltage-transfer characteristic of a particular logic inverter is modeled by three straightline segments in the manner shown in fig 2. If $V_{IL} = 1.2 V$, $V_{IH} = 1.3 V$, $V_{OL} = 0.4 V$ and $V_{OH} = 0.4 V$ https://powcoder.com 1.8 *V* , find:
- (a) the noise margins
- (c) the voltage gain in the transition region.

 (d) The value of V_M Add WeChat powcoder (C) the voltage gain in the transition region.