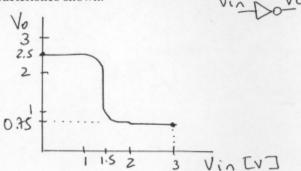
Your Name:

Chapter 2: Problem 1 (10 points): Determine noise margins for the inverter with characteristics shown:



Chapter 2: Problem 2 (10 points): Fill in the name of the region that corresponds to the given transistor current expression:

$$Ids = \begin{cases} O \\ B \left[V_{qs} - V_{t} \right] V_{ds} - \frac{V_{ds}}{2} \right] \cdot region = \\ \frac{B}{2} \left(V_{qs} - V_{t} \right)^{2} \cdot region = \end{cases}$$

Chapter 2: Problem 2 (10 points): Do the reverse engineering on those two layouts (a) and (b). Draw the schematic diagram for each circuit:

