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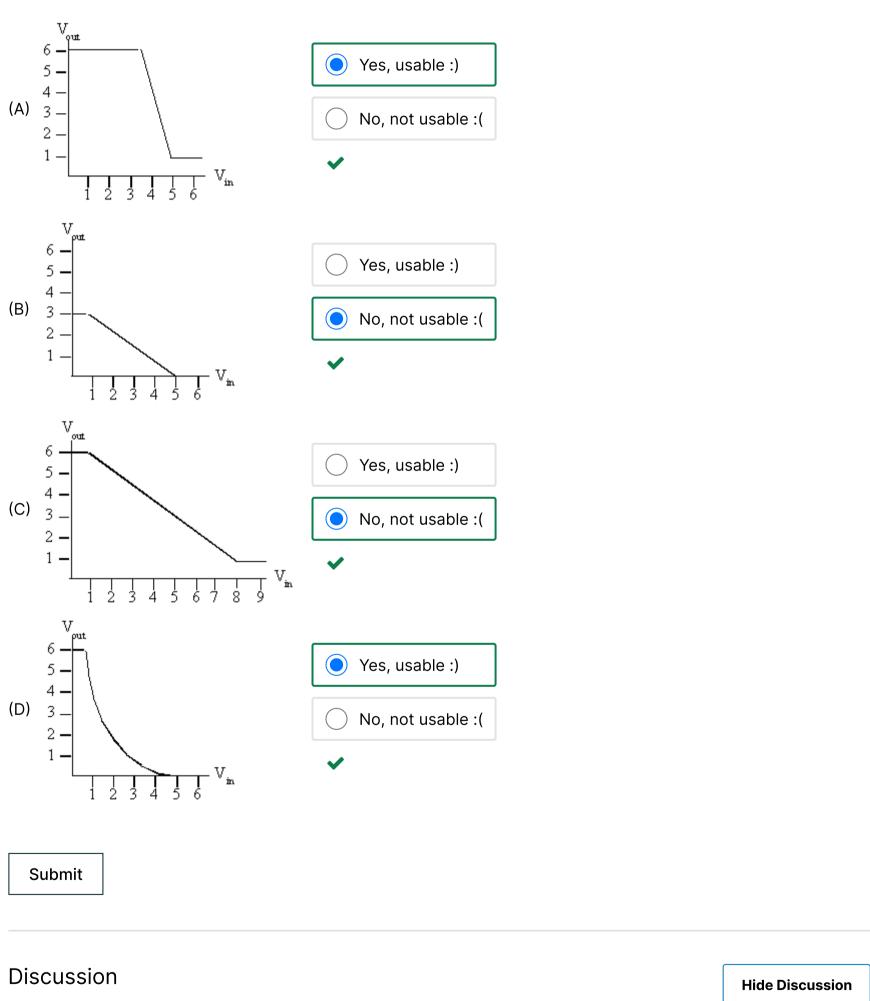
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LE2.4.1: Inverter madness

4/4 points (ungraded)

As VP of Engineering at Inverters-R-Us, you've received the following four voltage transfer characteristics from your integrated circuit development lab. The goal is to decide which of the devices could be used as a combinational inverter with positive noise margins. In other words, the device obeys the static discipline and there are choices for V_{OL} , V_{IL} , V_{IH} , and V_{OH} for which $V_{IL} - V_{OL} > 0$ and $V_{OH} - V_{IH} > 0$.

For each device, indicate whether it can be used as combinational inverter.



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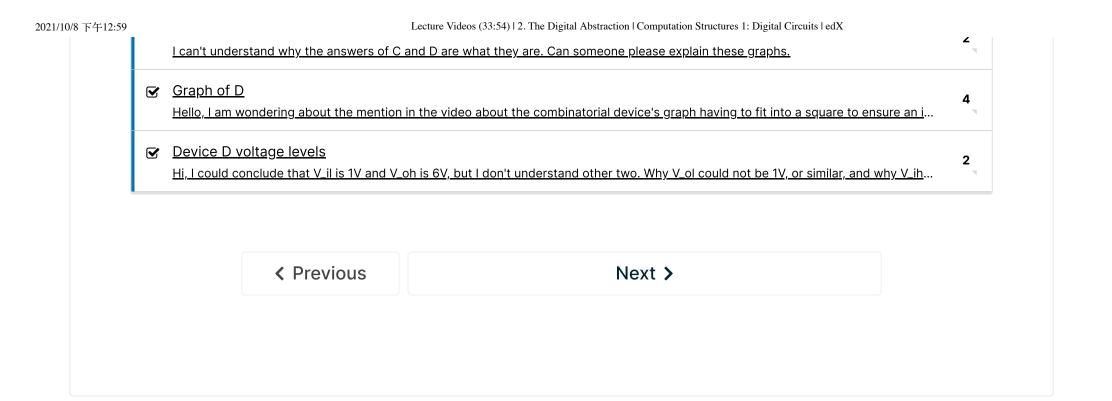
no values that would obey the static discipline exist, the gain is never greater than one?

Hi, I would like to know what this answer mean and how you can conclude it by seeing the graphs, Thx

problem with voltages...

is it absolutely necessary that the voltages folow the order v_ol < v_il < v_ih < v_oh ? or is just a convention?? thanks in advance..

Calculator



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