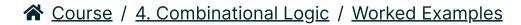


<u>Help</u>

selfpoised ~

<u>Course Progress Dates Course Notes Discussion</u>



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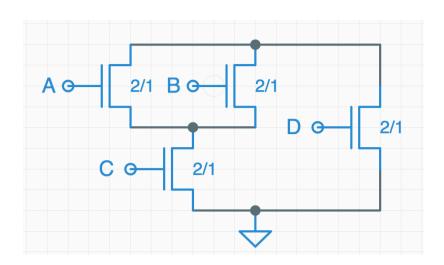
■ Calculator

Video explanation of solution is provided below the problem.

Truth Tables

16/16 points (ungraded)

Given the CMOS circuit with pulldown shown here, and assuming that the pullup is drawn correctly, fill in the truth table for this circuit.



$oldsymbol{A}$	B	C	D	F	
0	0	0	0	1	~
0	0	0	1	0	~
0	0	1	0	1	~
0	0	1	1	0	~
0	1	0	0	1	~
0	1	0	1	0	~
0	1	1	0	0	~
0	1	1	1	0	~
1	0	0	0	1	~
1	0	0	1	0	~
1	0	1	0	0	~
1	0	1	1	0	~
1	1	0	0	1	~
1	1	0	1	0	~
1	1	1	0	0	~
1	1	1	1	0	~

Truth Tables

1/1 point (ungraded)

Can the function F defined by the following truth table be implemented as a single CMOS gate?

$oldsymbol{A}$	B	C	$oldsymbol{F}$
0	0	0	1
0	0	1	0
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	0

Can F be implemented as a single CMOS gate?





NO



Submit

Truth Tables

Truth Table to CMOS Circuit

A 0	В	С	F
	0	0	1
0	0	1	0
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	0

(Caption will be displayed when you start playing the video.)

0:00 / 0:00

▶ 1.0x

CC

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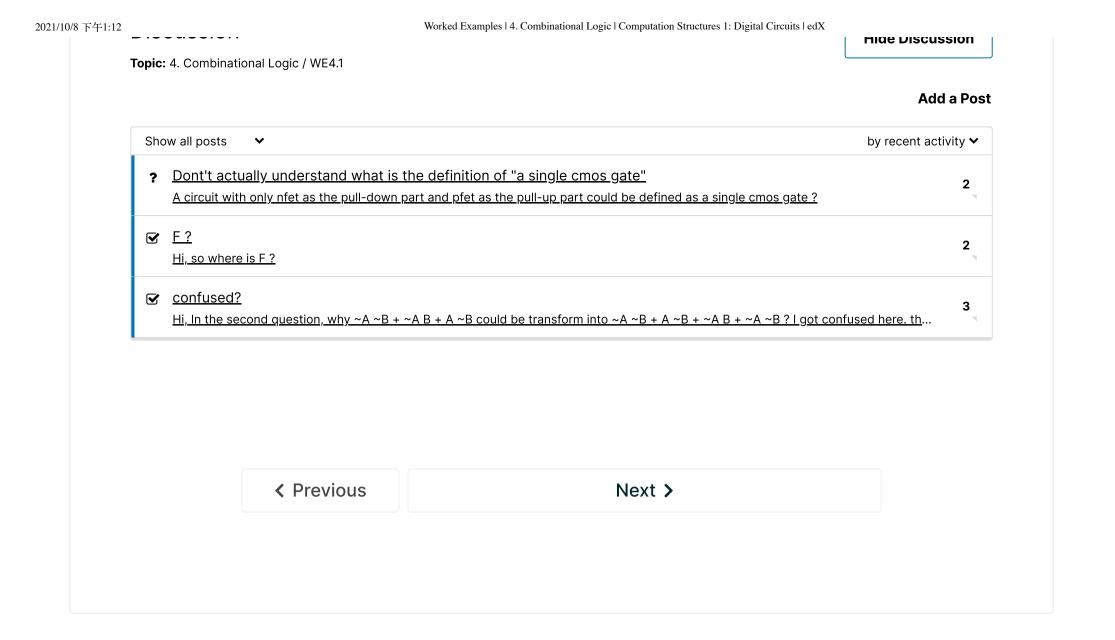
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⊞ Calculator



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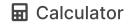
















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