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Tutorial: Combinational Timing

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Combinational Timing

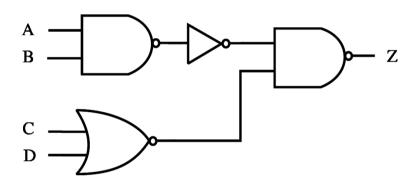
1/1 point (ungraded)

Is it possible for an inverter to have a contamination delay that is greater than it's propagation delay?

Yes
No
Can't Tell
✓
Submit

Combinational Timing

2/2 points (ungraded)



Here's a table showing the t_{CD} and t_{PD} for each of the components in the circuit above. Please compute t_{CD} and t_{PD} for the circuit as a whole.

	t_{CD}	t_{PD}
Inverter	2 ns	4 ns
NAND	3 ns	8 ns
NOR	4 ns	7 ns

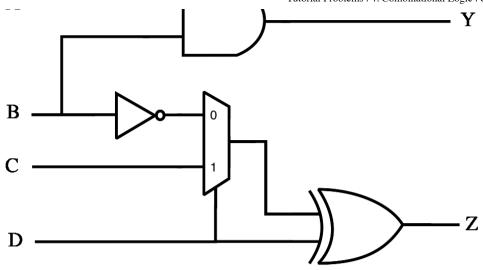
Contamination delay (ns):	7	_
Propagation delay (ns):	20	~

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Combinational Timing

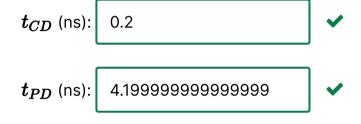
2/2 points (ungraded)





Here's a table showing the t_{CD} and t_{PD} for each of the components in the circuit above. Please compute t_{CD} and t_{PD} for the circuit as a whole.

	t_{CD}	t_{PD}
Inverter	0.1 ns	0.3 ns
AND2	0.2 ns	0.5 ns
XOR2	0.6 ns	2.4 ns
MUX2	0.3 ns	1.5 ns



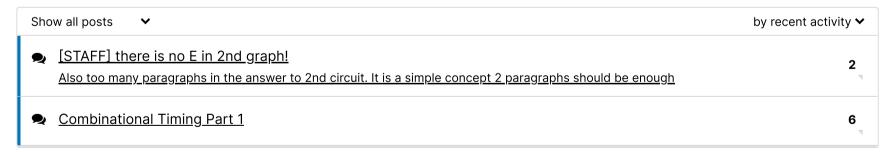
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