









 Find the minimum Boolean function F(ABC) in SOP form from the following k-map:

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		ВС			
		00	01	11	10
	0	Х	1	0	Х
	1	1	Х	Х	1

- a. F = AC'+B'
- b. F = A + B
- c. F = B'+C'
- d. Both b and c are true



Tip-flop 1. Edge-triggered flip-flops must have: A. active-low inputs and complemented outputs. B. a pulse transition or edge detector circuit. C. very fast response times. D. at least two inputs to handle rising and falling edges. 2. What is one disadvantage of an S-R flip-flop? A. It has only a single output. B. It has no CLOCK input. C. It has no Enable input. D. It has an invalid state.

Flip-flop

- 1. The circuit that is primarily responsible for certain flipflops to be designated as edge-triggered is the:
 - A. NAND latch.
 - B. NOR latch.
 - C. pulse-steering circuit.
 - D. edge-detection circuit.
- 2. As a general rule for stable flip-flop triggering, the clock pulse rise and fall times must be:
 - A. at a maximum value to enable the input control signals to stabilize.
 - B. very long.
 - C. of no consequence as long as the levels are within the determinate range of value.
 - D. very short.











