

3.23 Timing diagrams

A **timing diagram** graphically shows a circuit's output values for given input values that change over time. Each signal (input name) is listed on the left. Time proceeds to the right. Each signal is drawn as a high line (1) or a low line (0).

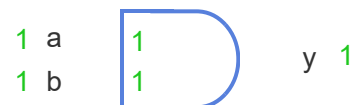
PARTICIPATION ACTIVITY

3.23.1: Timing diagram for an AND gate.

Start



2x speed



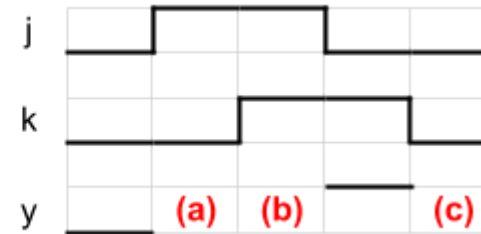
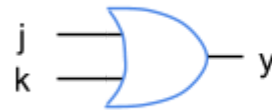
Timing diagram

a	1
	0
b	1
	0
y	1
	0

PARTICIPATION ACTIVITY

3.23.2: Timing diagram.

Complete the timing diagram.



1) (a)

☐ 0☐ 1

2) (b)

☐ 0☐ 1

3) (c)

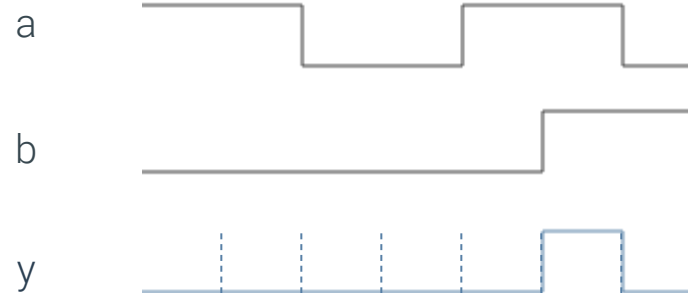
☐ 0☐ 1**CHALLENGE
ACTIVITY**

3.23.1: Timing diagram.

Indicate y's value over time. Click on the y's waveform to adjust it.

Start





1	2	3	4
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Check

Next

 **Provide feedback on this section**