

Lista de Exercícios Práticos 02 (Construção de Circuitos Combinacionais)

1.

Link Falstad:

[Tabela:](https://www.falstad.com/circuit/circuitjs.html?ctz=CQAgjCAMB0I3BWcMBMcUHYMGZIA4UA2ATmIxAUgpABZsKBTAWjDACgAZEJhMFbzPx7EhggOBAAzAIYAbAM4NqkTt15DWQhCO6bxVGQqVIVXHn3CE1OsFaoG5i5aqY1CNWrev8aXqhEMnEzYAdzULJjFzUTw8KFDwmLimbAQk+LCUtlFY7ITRDH4VTPVdCPyyooToyzzsv2q3D18rV3dabCrMpo6hXGbOjLzIAb6Rzss2MARydypI3lxxhbiqcns2AEk8tAFCgRp5sXtoJAQtnfm9SMPK-VOKC5Tdrxv-Oygh8+3I-ZbdHT-E5nar9CZ7HwNTIVV6dd5DLlacq7FgWYp1Ap9FHHKaUAGifDcdqRQIUlqPTIoW6-DQ6GnxAAeugwEEiM24xA8bOalCplAACgwAE4AEwYAFdqmA6VFpal+ei3ncWHS9lq5cqNSqqtMroR5oMmMTBmTxOcmUbYZB6Ea4MMqB4+QBBNgWwjS3TZW02sA0Yi0XkeABCrqJHsirP1Gjijo8AGFQ5aIng8DbtB4U1ZYyAACLVKIHfZK1yrfPUmjJWzzCsluHKussSbQIGvKu6Sa6olcryGvy8s1l+FGjxQru1Yf6RN0jCtPIMHABvkAMU2ADknRxE9pkEg6MgY4QGE6AA5CgD2ADdpCKz7j+BV6Smucd+1RztN73hnwgs68UD-xH4EFMmJNBkIA3JFQgulHxQSCEI7KxDX-JsQGQgDYIA9EnwOfwaGfW50V9Ai8JHfUhn+Nks1ArCEh6KjaGgiimLmHJSw-NCvQ1HDtUA6hzhA59CVg0kEmlywqGwbArDbbDplktD5JYGchik1owBUH8NNQniNT9dSdHRfT8VoYhZ1osJjIY1iGLkmTyJ-d4NjCRyFNcyIFQSdyUD5Gyfl8IyaOo7s4OYkK4hnStQvRSLdFC2LG2cxjwuS7g8CS+j0pAHBWiyMkIKynL2wy4ksvomtAq5Gslq0swhq7hquWWTcSOPk22U+z7FfClcMa5lC3AfCEUG8SPJHYbFQbWEXhUqbZtndq5ta5kZJUlhQu0vi31BepVRUjUpr2vp6lQja4i2wYtpUTsmCylCdI5LD+2AxllTenESgsKJ7v2dVVQIDV2n+-hiTMkBgeqcGwasQbFXBwa7rJQiVueXI9i8F8gMeTsawqcGKINHbOwJ+TxLU7bepqKJSjrRVad2AndhB8EHVHNmPmkurxC52gYMIbmmAR6k+DiOGpVCxHRcUs7pYpvH5Ju7JBv83lcIV00QQ4uCxduCm4Ze3r9b1snyOw-hLv4MDVKtwkVdEsJMYx76-rEI2Le+IHHc95HfaGcn5LECn0SDwP9gekPw4AnWnrO0bZ3D+DKUT5JBhjlQgA</p></div><div data-bbox=)

n A F P			
0 0 0 0	0	0	0 1
0 0 0 1	1	0	0 1
0 0 1 0	2	0	0 1
0 0 1 1	3	0	0 1
0 1 0 0	4	0	1 0
0 1 0 1	5	0	1 0
0 1 1 0	6	1	0 0
0 1 1 1	7	1	0 0
1 0 0 0	8	1	0 0
1 0 0 1	9	1	0 0
1 0 1 0	10	1	0 0
1 0 1 1	11	0	0 0
1 1 0 0	12	0	0 0
1 1 0 1	13	0	0 0
1 1 1 0	14	0	0 0
1 1 1 1	15	0	0 0

Considere que a nota vai de 0 a 10. Ou seja, quando a nota não é válida, não aparece nada no display.

Para P: $\sim A \wedge \sim B$

Para F: $\sim A \wedge B \wedge \sim C$

Para A: $(\sim A \wedge B \wedge C) \vee (A \wedge \sim B \wedge \sim C) \vee (A \wedge \sim B \wedge \sim D)$

n = nota, A = aprovado, F = final, P = perdeu

2.

Tinkercad:

<https://www.tinkercad.com/things/2ydy9xHCLZr-bodacious-juttuli-bruticus/editel?sharecode=oSc0ISrcKXXsu5pu6OH1GduysoQjm4rKHV0jl8-2hiQ>

	A	B	C	D	E	F	G
00	0	1	1	1	1	0	1
01	0	0	1	1	1	1	1
10	0	0	1	0	1	0	1
11	1	1	1	0	1	1	1