LOVINCE KERBY

A) A Tabela verdade

A	B	C	D	Z
0	0	0	0	0
0	0	0	1	0
0	0	1	0	0
0	0	1	1	0
0	1	0	0	0
0	1	0	1	0
0	1	1	0	0
0	1	1	1	1
1	0	0	0	1
1	0	0	1	1
1	0	1	0	1
1	0	1	1	1
1	1	0	0	1
1	1	0	1	1
1	1	1	0	1
1	1	1	1	1

b)

$$Z = \overline{A}\cdot B\cdot C\cdot D + A\cdot\overline{B}\cdot\overline{C}\cdot\overline{D} + A\cdot\overline{B}\cdot\overline{C}\cdot D + A\cdot\overline{B}\cdot C\cdot\overline{D} + A\cdot\overline{B}\cdot C\cdot D + A\cdot B\cdot\overline{C}\cdot\overline{D} + A\cdot B\cdot\overline{C}\cdot D + A\cdot B\cdot C\cdot\overline{D} + A\cdot B\cdot C\cdot D$$

c)
Z=’ABCD+A’B’C(‘D+D)+A’BC(‘D+D)+AB’C(‘D+D)+ABC(‘D+D)

Z=’ABCD+A’B’C+A’BC+AB’C+ABC

Z=’ABCD+AB(‘C+C)+A’B(‘C+C)

Z=’ABCD+AB+A’B
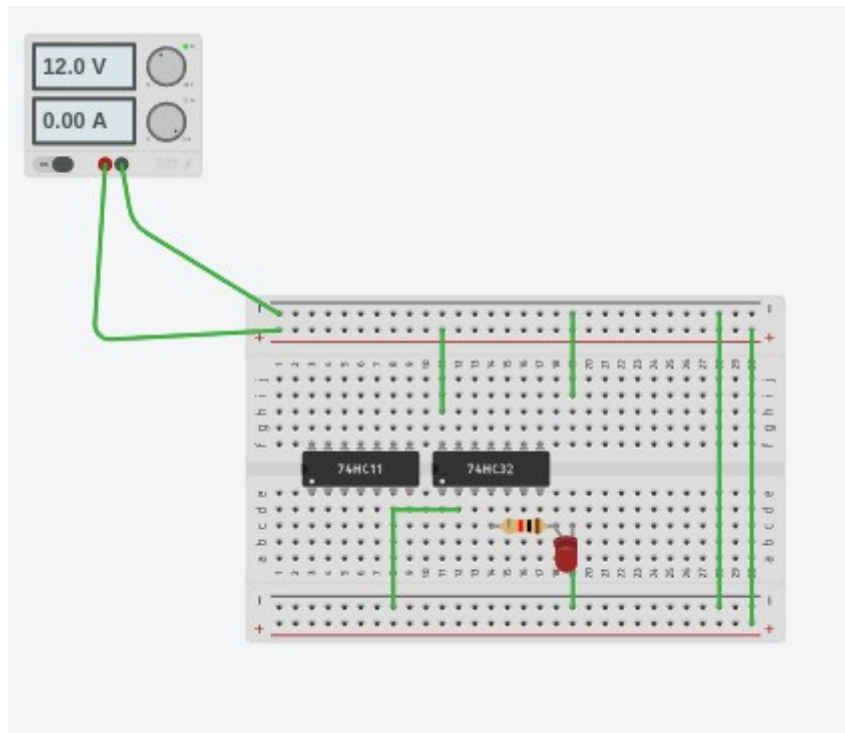
Z= ‘ABCD+A(‘B+B)

Z=’ABCD+A

Z=A+BCD

D)
https://www.tinkercad.com/things/69iU5aLNeok-cool-krunk/editel?
sharecode=Wcr90hDa87dJuYj9dCofVFQkXmjpWIjuLLs9BKGdeOY

E)

VCC   Z=A+BCD

-B

-A   -C

-D

Z

-B   -C   -D

-A

GND