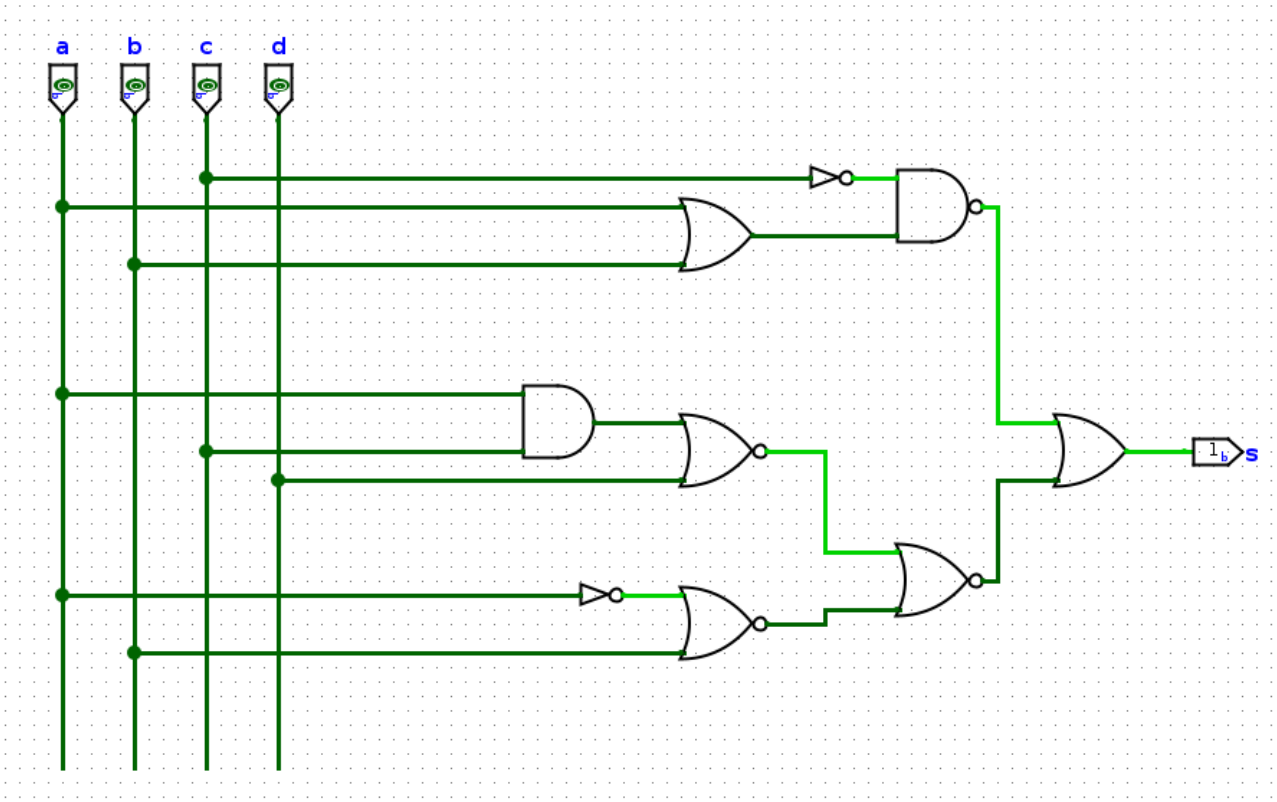
ATIVIDADE 4 – CIRCUITOS DIGITAIS

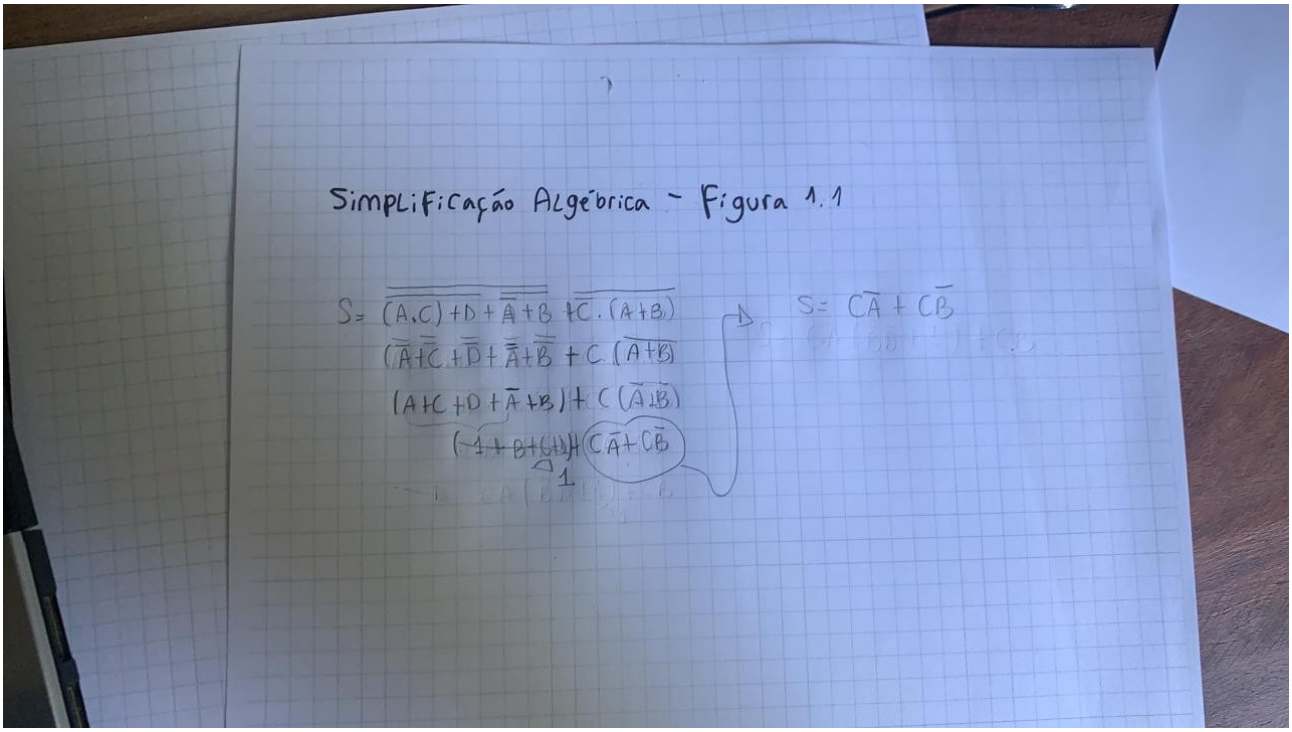
ANDREW GABRIEL GOMES

Figura 1.1:

1)A)



1)b)



1)c)

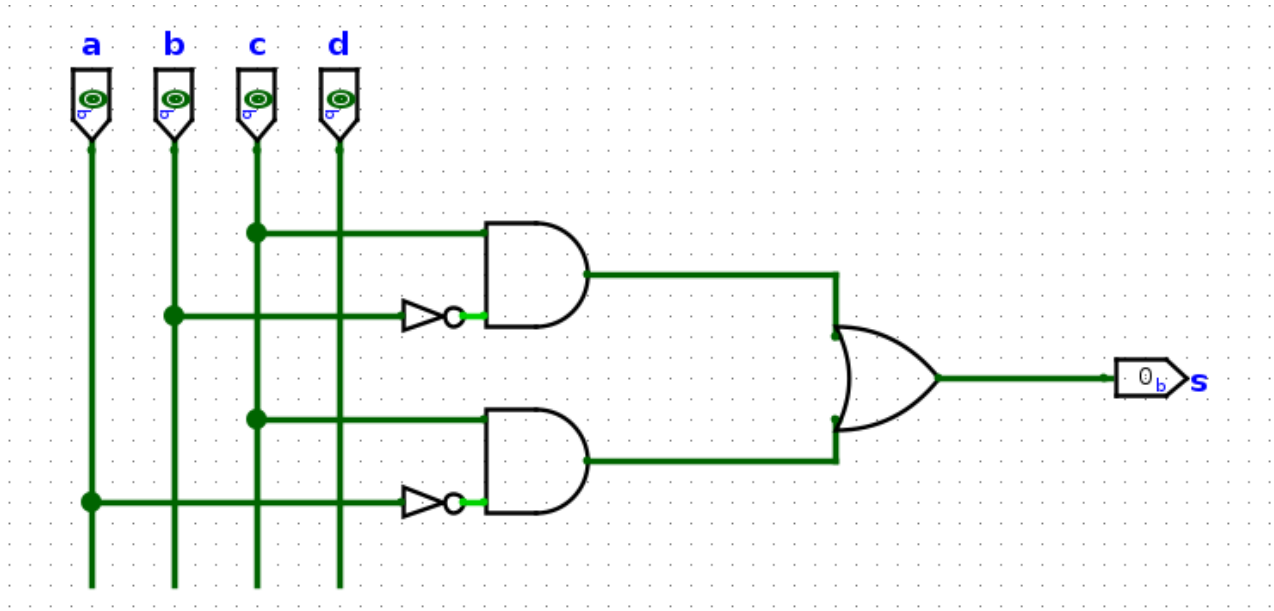
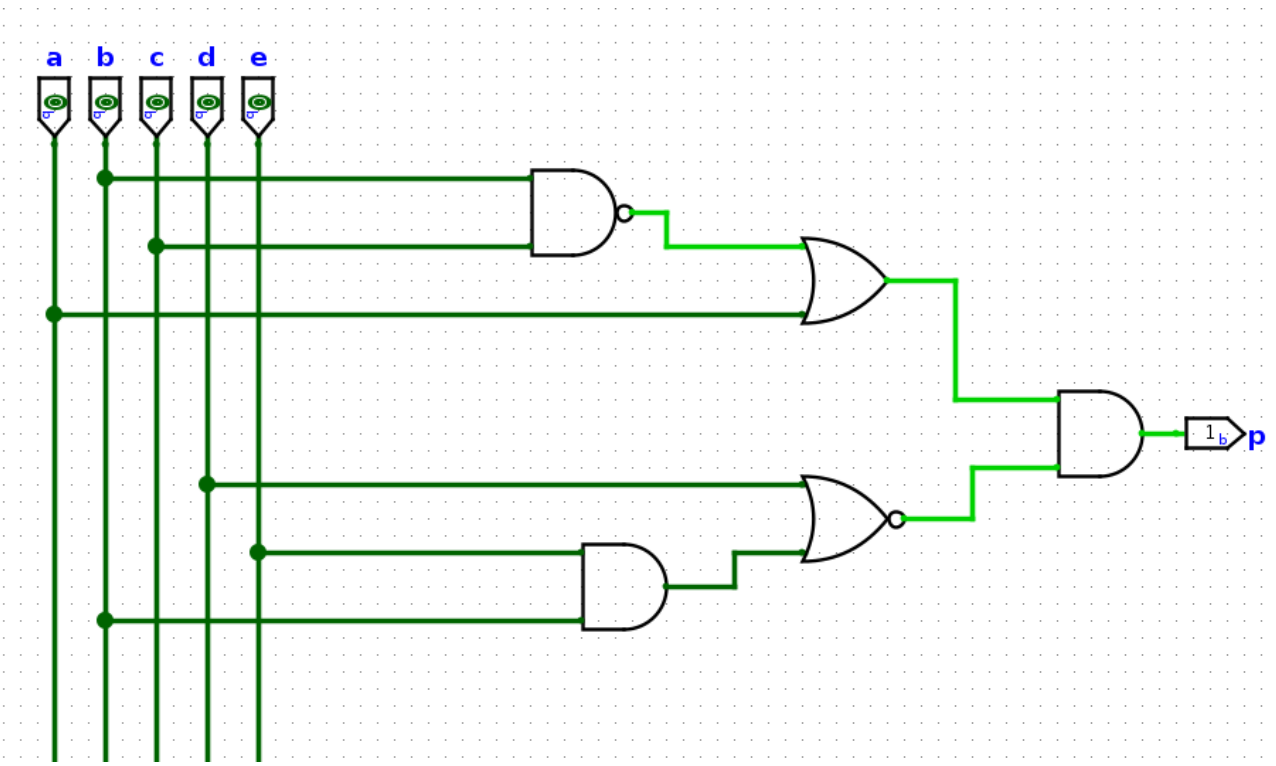
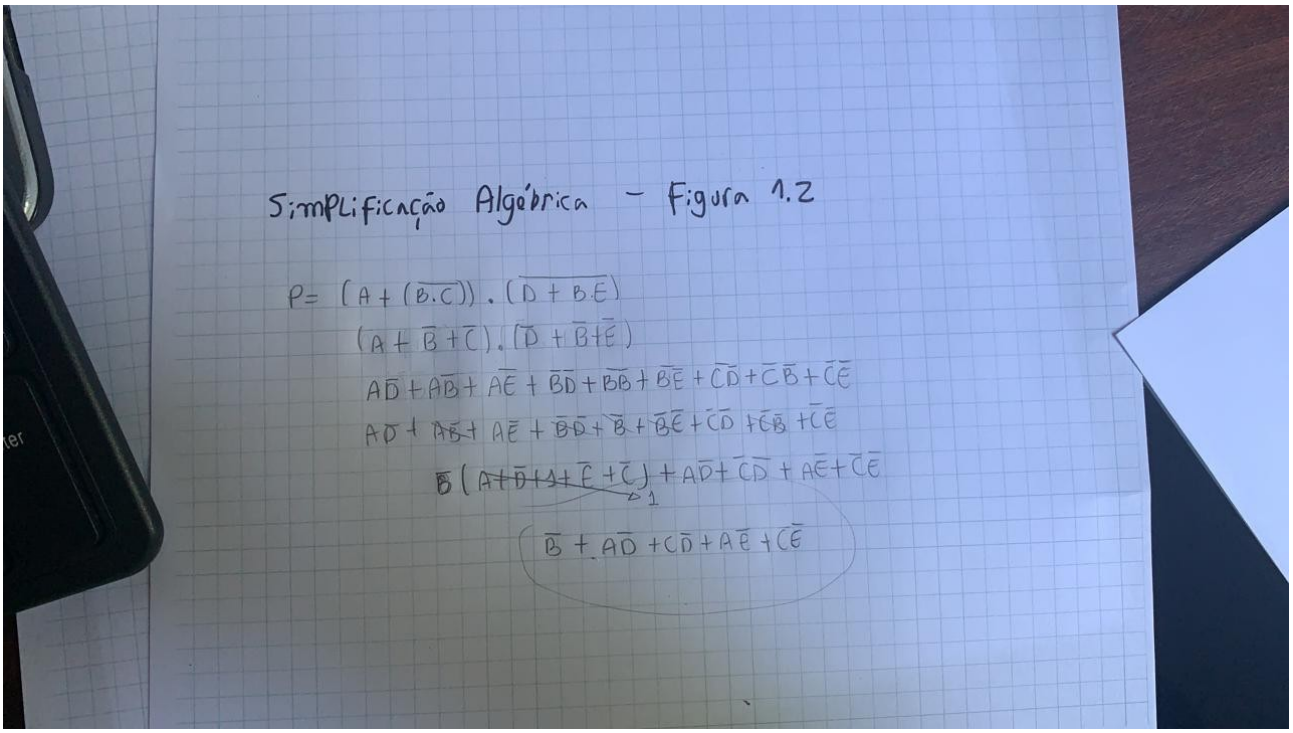


Figura 1.2:

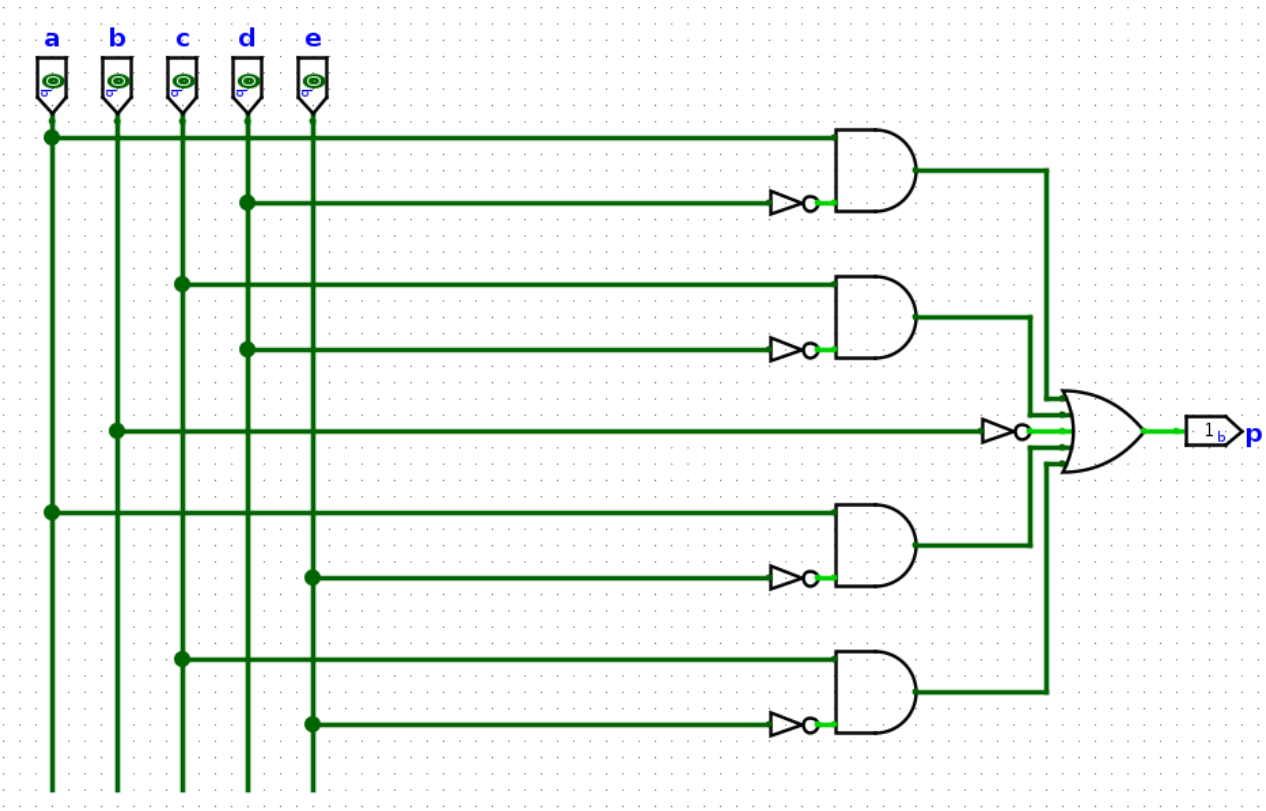
1)a)



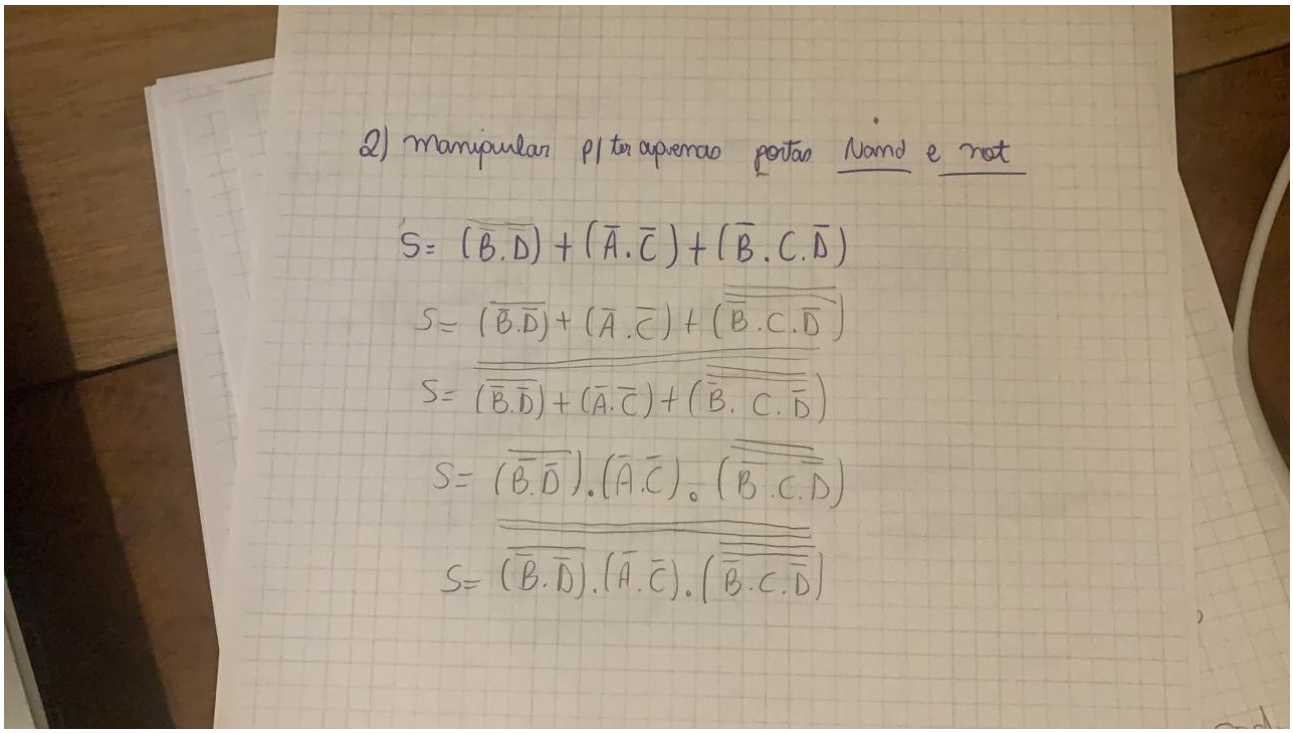
1)b)


Simplificação Algébrica - Figura 1.2
P= (A + (B.C)) . (D + B.E)
(A + B + C) . (D + B + E)
AD + AB + AE + BD + BB + BE + CD + CB + CE
AD + AB + AE + BD + B + BE + CD + CB + CE
B (A + D + 1 + E + C) + AD + CD + AE + CE
1
B + AD + CD + AE + CE

1)c)


a
b
c
d
e
1
p

2)



2) manipular p/ ter apenas portas Nand e not

$S = (\overline{B.D}) + (\overline{A.C}) + (\overline{B.C.D})$

$S = \overline{(\overline{B.D}) + (\overline{A.C}) + (\overline{B.C.D})}$

$S = \overline{\overline{(\overline{B.D})} + \overline{(\overline{A.C})} + \overline{(\overline{B.C.D})}}$

$S = \overline{(\overline{B.D}).(\overline{A.C}).(\overline{B.C.D})}$

$S = \overline{(\overline{B.D}).(\overline{A.C}).\overline{(\overline{B.C.D})}}$