Truth hable

2) write T.T for a 4 bit

ilp olm

дія

indicating when majority

Jitr éfps are me.

80/1

0

a

23

oo

1 0 6

4 ilps- a, *b*, c, d = 2% =

16

olp

22 21 2 0/p

b

cd

oo

F

F

o

(0-15)

The 20

D

Folse = 0

20

o

310

410

510

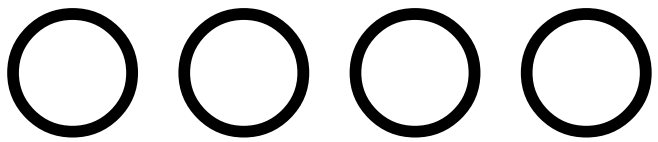
1

O

OO

1

ง



610

ש

1

лаб

○

○○

۹ ۱۱

oo

10

ɔ

سه

ال

=

v

13

14/1

15/1

1

1

1 0

0 1

ง

a slm which

3) Develop a $T.T$

for

accepts ter 2-kit kinary nos.

and generates three

opps. The

first olp indicates when the 2 nos. differ by 2

2nd

2

or more,

olp indicates when the two nos. are identical y the third opp indicates when me first wo

exceeds the 2nd

no.

Nz

Solon. ; *ilgs*

: – 4

opps ⟶ 3 =

x, y,

I

n

↓

□ㅏ32

a

}

~1 = n2

cd=24=16

(0-1

5)

ny072

и

a

2

3

4

6

7

8

9

1

12

مرا

124

15

Q

0

из

72

(*=v) (14_1x1)

c

0 ᴜ

x y z (x^2)

|

1

Q

O 0

0

a

a

ง

1

Co

1

o

+

1

ง

จ

1

อ

0

0

อ

1

0

ง

1

○

o

O

|

o

e

e

e

ʊ

1

o

*

Boolean expressions

from t.T

canonical)

mintern form

ナナ

Canonical

madden

Jor

yo sop(sumi

xx Eg

f(a,b,c)=

sop (sum of products) * pos (product of

a b c + ă b c + ā
bē

a

oo

6 # terms
notations
Ъ

sum)

Eq: f(a, b,

c)=

(a+b+c)

(a+b+é)

a b f/tems

Mo

1a76 Mo нать

01 Loat↓ M,

01 à 5

аб

то

11ã b

m

0100

од

ató

d.

a b

atm2

M2

2

o

olatb |

M2

12

3

o

a blm 3

3

3

1a+b M3

* E-notation is used * JT-nodation is

to simplify writing used to

simplify

по

notationis.

+(a,b) = {(1,

2)

writing

notation,

+(a,b) =πT

(1, 2)

f(@b) = ábt

ab

a

of while
expressing a fr
look out for rows
for "f" evaluates
to """
(true).

(

f(a, b)=(a+b).
(a+b)

* while
expressing

a

yu look out `for` rows for which `Jr.` evaluates `to` '0' (false).

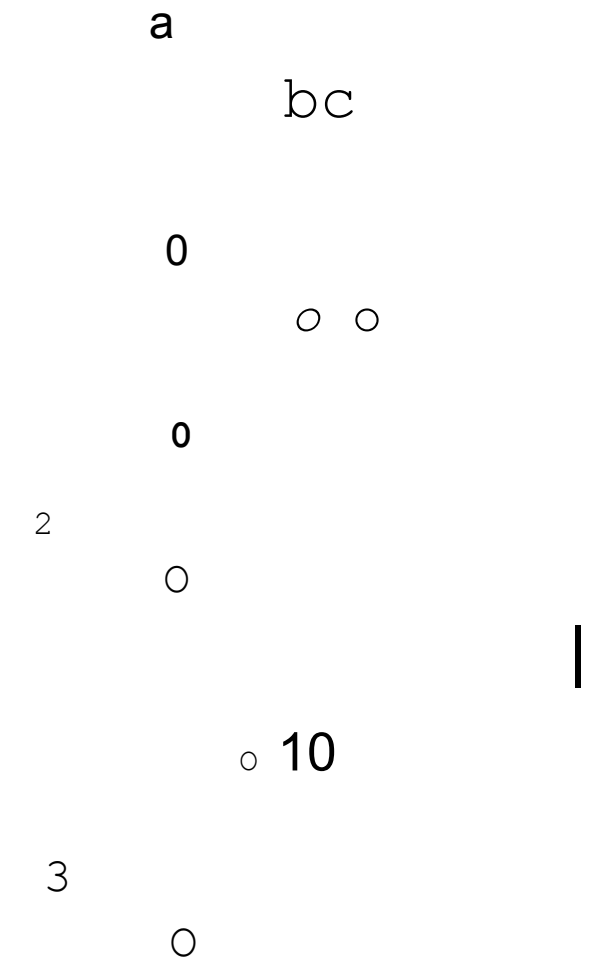
1) `construct` T.T for the sims represented by

a) `f = {(1, 4, 7)`

/

b) $f = \pi T$ *(2,*

7) -



a) 1 =

{(1, 4,

(41)

F

노

+

J

д

0

f(a,b,c)=äbc

＋ абстав

○

6

o

○

チ

1

b）f = π (2,

I

Л

:)

pos

a

ьс

F

oo

oo

o

or $(a, b, c) =

(a+*b*+*c*) .

a

(a+b+c

)

3

o

f

o

1

o

1

0

o

c) f =

{(2,11,13,14)

d)

f-TT
(8,14,15
)