EX.1:


EX.2:

clek:
N
STATE:

OUTPUT.


EX.3:

$$
42_{(10)}=32+8+2=101010 \rightarrow 0101010
$$

$$
\begin{aligned}
& 95=64+31=101111 \\
& -42-95=-137 \\
& 95-42=53) H \\
& 001011111+ \\
& 111010110 \\
& \frac{000110101}{0} \\
& =1+4+16+32=53 \mathrm{~V}
\end{aligned}
$$

潼


01011111

$$
\begin{aligned}
& 111010110+ \\
& 110100001= \\
& \hline 101110111 \\
&=-256+64+32+16+7 \\
&=-256+19=-137 \quad
\end{aligned}
$$

EX.4:

$$
\begin{aligned}
& (\bar{b}+c)(a+b \bar{c})+(\bar{a} c+b)(\bar{a} \oplus b c)= \\
& =b \bar{c}+\bar{a}(\bar{b}+c)+(\bar{a} c+b)(a b c+\bar{a}(\bar{b}+\bar{c})) \\
& =b \bar{c}+\bar{a} \bar{b}+\bar{a} c+\bar{a} \bar{b} c+a b c+\bar{a} b \bar{c} \\
& =b \bar{c}+\bar{a} \bar{b}+\bar{a} c+a b c \\
& =b \bar{c}+\bar{a} \bar{b}+c(\bar{a}+b)=b \bar{c}+\bar{a} \bar{b}+\bar{a} c+b c \\
& =b+\bar{a}(\bar{b}+c) \\
& =(b+\bar{a})(b+\bar{b}+c) \\
& =b+\bar{a}
\end{aligned}
$$

EX.5:


EX.6:

$\Rightarrow\langle 1 ; 10010 ; 011011000\rangle$

$\Rightarrow\langle 0 ; 10010 ; 0010010000\rangle$

$$
\begin{aligned}
& 10010=18=15+\frac{3}{\pi} \text { vero exp. } \\
& x=-1011,011=-(11+0,25+0,125)=11,375 \\
& y=+1001,001=9,125
\end{aligned}
$$

shesso exp.

$$
\begin{aligned}
& 1,0110110000- \\
& 1,0010010000= \\
& 0,0100100000
\end{aligned}
$$

horm.

$$
\langle 1 ; 10000 ; 0010000000\rangle
$$

DEC. $-10,01=-2,25$
ESAD. $\underbrace{1100}_{c} \underbrace{0000}_{0} \underbrace{1000}_{0} \underbrace{0000}_{0}$

