Page 1 of 7 | 1 | BCD | 1 | 16 | bin | 16 | 4 | 0001 | 0110 | 0100 | 1 | 10 | BCD | 16 | 402 | 0100 | 1000 | 
$$X - 10$$
 |  $X - 10$  |

## **ASCII: American Standard Code for Information Interchange**

Gray code: Hamming distance = 1

Reflected = 
$$[aukil]$$
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Boolean Algebra جبر بول

جربول تخلل کره اسی از علاهای مزب، جع، نفیغی ۱٫۰ Complement

High Low NOTIORIAND - 2 2 - 1000 Los

water Los جبر تزاره ها (منطق)، عبر جويم ها، عبر موتي ها (لي ما) اولوس عمارها: ردانتر، نعیمن، صرب، حع  Page 4 of 7

$$\begin{cases} a+0=a \\ a\cdot 1=a \end{cases}$$
  $\begin{cases} a+a=a \\ a\cdot a=a \end{cases}$   $\begin{cases} a+b=b+a \end{cases}$   $\begin{cases} a+b=b+a \end{cases}$ 

 $\begin{cases} a+b=b+a\\ a\cdot b=b\cdot a \end{cases}$ 

{B, ·, +, '} {0,1}

| ab  | ab | atb |             |
|-----|----|-----|-------------|
| 00  | 0  | 0   |             |
| 0 ( | 0  |     | $a \mid a'$ |
| 10  | 0  | 1   | 0 1         |
|     | 1  | 1   |             |

 $\begin{cases} \alpha + \alpha = 1 \\ \alpha \cdot \alpha = 0 \end{cases} \Rightarrow \text{is repair Ma}$ 

 $\begin{cases} a+b=1\\ a\cdot b=0 \end{cases} \Leftrightarrow a=b$ 

a+b.c=(a+b).(a+c) Page 5 of 7 a+b.c a+b a+c (a+b). (a+c) 000

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$$(a+(b+c)=(a+b)+c) (a+ab=a+b)$$

$$(a+(b+c)=(a+b)+c) (a+ab)=a+b$$

$$a(a+ab)=(a+a') (a+b)=a+b$$

$$a(a+ab)=ab$$

$$(a+b)=ab$$

$$(a+b)=a+b$$

$$(a+b)=a+b+a'=a+a'+b=1+b=1$$

Page 7 of 7 قصب سمول:  $\{ab+ac+bc=ab+ac\}$   $\{(a+b),(a+c),(b+e)=(a+b),(a+c)\}$ الما حاليا =ab+aC=ab(1+c)+ac(1+b)= ab+abc+ac+abc =ab+ac+bc.(a+a')=ab+ac+bc