

128	64	32	16	8	4	2	1
0	0	1	1	0	1	1	1

$$55 - 32 = 23$$

$$23 - 16 = 7$$

$$7 - 4 = 3$$

$$3 - 2 = 1$$

$$1 - 1 = 0$$

$$* - 55$$

$$00110111 \rightarrow 11001000$$

+

$$11001001$$

$$98 \quad 01100010$$

$$-55 \quad + 11001001$$

$$43 \quad 100101011$$

$$00101011_2$$

## Section 2: Boolean

2. Write a Boolean equation in sum-of-products form for the following truth tables

2a.

A	B	Y
0	0	1
0	1	0
1	0	1
1	1	0

$m_0$   
 $m_1$   
 $m_2$   
 $m_3$

$$m_0 + m_2 = Y$$

$$\overline{A}B + A\overline{B} = Y$$

2b.

A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	0
0	1	1	1
1	0	0	0

$m_0$   
 $m_1$   
 $m_2$   
 $m_3$   
 $m_4$