

3) 00101 + 01100 1 1 0 0 1 0 1 + 0 11 0 0 1 0 0 0 1

2) 
$$10011 - 101101$$

2's complement of  $(101101) = (010010) + 1$ 
 $10011$ 
 $+010011$ 
 $10011$ 

Ans = (2's complement of (100110) = -011010

$$\begin{array}{c}
3 & 10 & 111 & - & 0 & 1000 \\
 & 0 & 2 & 1 & 11 & 1 \\
 & 0 & 1 & 0 & 00 & - \\
 & - & 0 & 1 & 1 & 1
\end{array}$$

5) 011011 - 100101

M = 011011 N = 100101

a's complement qN = (011010)+1

011011 + 011011

Ans = - (2's complement of 110110) = -001010

- (II) Grent Govern boolean expressions do logic gates.
  La Addached logisim file.
- (III) Exercise find boolean expressions from given logic gates.

  L. Altanted logis im file.

and the second fill of a light