Problem Set:

Question 1

Complete the number conversions indicated. Note that all binary numbers are two's complement representations.

$$-19_{D} = \frac{|||D||D|}{-|D|}_{D}$$

$$10011010 B =$$

$$10000000_{\rm B} = -164$$

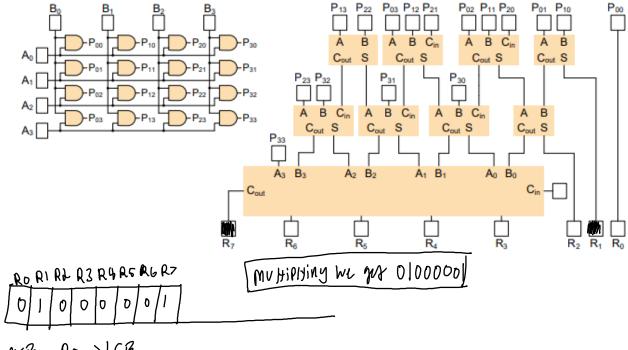
$$-101_{D} = 100|0|1$$

Question 2

Complete the two 2's complement arithmetic problems below assuming that all operations use an adder. Showing both the decimal and binary numbers in each case.

Question 3

Fill in the squares below to show all signal values when A = "1101" and B = "1010" are multiplied.



R7-MSB, RO -LSB