L6 practice problems

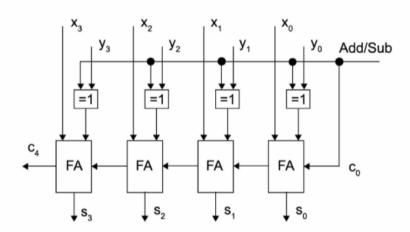
1. Perform the following <u>unsigned</u> addition operation. The 8-bit unsigned binary inputs are represented in hexadecimal digits.

2. Assume the hexadecimal digits in Question 1 are 8-bit <u>2's complement</u> representations of the signed input values.

Give the decimal equivalent of the signed input values and also of the result.

2's complement: 10011111= -97 01001110= 78 result=-19

3. Illustrate how the decimal subtraction (3 - 7) is carried out in the following circuit by indicating the logic level (i.e. 0 or 1) at every input and output (including intermediate signals) on the circuit.



4. Draw the diagram of a 6-bit wide 2's complement adder/subtractor circuit using six full adders.