Computer Science 240 More Arithmetic and Sequential Circuits Assignment for Lab 4

1. Complete the truth table for the following circuit (the box with **+** is a 1-bit adder):



Describe the general purpose of this circuit:

(NOTE: wait until after the lecture on sequential circuit to complete these questions)

2. Complete the truth table for the SR latch:

3. Draw the circuit diagram for the SR latch:

S	R	Q	Q'
0	0		
0	1		
1	0		
1	1		

4. Assume the inputs are S=0 and R=0. Will the output Q be 0 or 1? Explain.