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Lab 6: Build and analyze a circuit

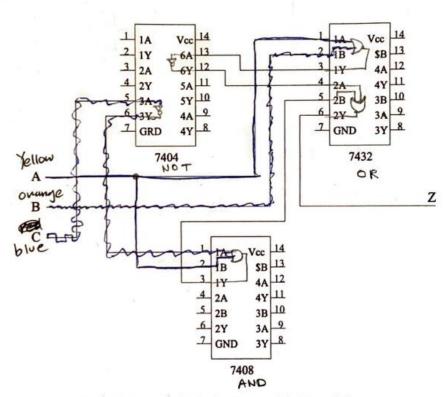
## 1 Objective

In this experiment the student will build and analyze a simple circuit.

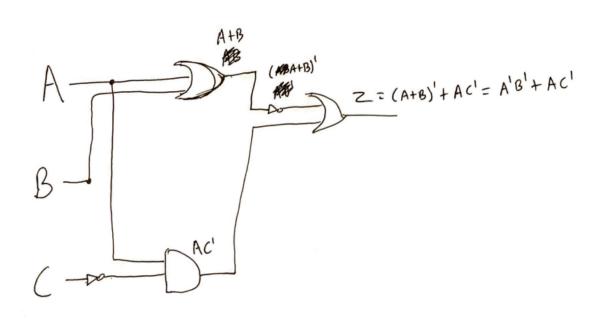
Provided: 1 7404 chip, 1 7408 chip, 1 7432 chip, breadboard.

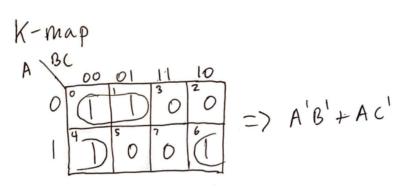
## 2 Experiment

Build the following circuit using the specified IC's. Make sure you connect the Vcc and GND
in each of the IC's appropriately. Note that A, B and C are the inputs and Z is the output.



- 2. By tracing the circuit find Z as a function in terms of A, B and C.
- 3. Simplify function Z. Using K-wap
- 4. Create the truth table for Z.
- 5. For each of the input combination in the circuit, verify that the corresponding value of Z agrees with that in the truth table.





ABC 000 001 010 011	2 1 0 0 1 0	Everything	Checks	OU+.
1 0 1	0			