

Because I don't want to draw the following quantum circuit, I'll describe it succinctly. The circuit has five wires. From left to right, its gates are:

1. CNOT with first wire control and third wire target.
2. CNOT with second wire control and fifth wire target.
3. AND with first two wires as input and third wire as output.
4. AND with first two wires as input and fourth wire as output.
5. AND with first two wires as input and fifth wire as output.

A. Draw this circuit.

B. Show that this circuit has the same effect on the last three qbits as our correction subcircuit from class.