

Name: _____

Section: _____

EE334 Homework: Boolean Algebra

Problems from Hambley:

- P7.31, P7.33 (a, b, c), P7.36, P7.37

Other Problems:

- Take a look at the functions in P7.26 (a & c). Draw a circuit implementation for each function using AND, OR, and NOT gates.

#1) – A pump motor in an industrial plant will start only if the temperature and pressure of liquid in a tank exceed a certain level. The temperature sensor and pressure sensor each produce a logic HIGH (5V) if the measured quantities exceed this value. These sensors are connected to a logic Circuit. The circuit needs to produce a logic LOW (0V) to start the motor. Draw the logic circuit that you would need to control the motor.