



Worksheet 3 – MM2EMD Digital electronics

Q1. Construct a digital circuit to accept a two bit binary number and produce a 1 if the number is even and a zero if the number is odd. Start by writing out the truth table for the circuit.

Q2. Construct a digital circuit that will accept a three bit binary number and produce a 1 if the number is even and a zero if the number is odd. Start by writing out the truth table for the circuit.

Q3. Construct a circuit that will accept a four bit binary number and will produce a 1 if the number is prime and a 0 if the number is non prime. Start by writing out the truth table for the circuit.