Name :

Math 170 – 5 –

A tautology is a boolean expression that is always true no matter what the variables in it are (for example p or (not p) is true for every truth value of p). Write down a tautology.

Express 124 in base 2.

Draw the *logic device* for (x and y) or (not z).

Design a logic device to add two numbers of one digit each in base 2.

(optional) Design a logic device to add two numbers of 5 digits in base 2.