Name : مازن زياد طه

* XOR using NAND only :

A piece of paper with writing on it

Description automatically generated

* XOR using NOR only :

Letter

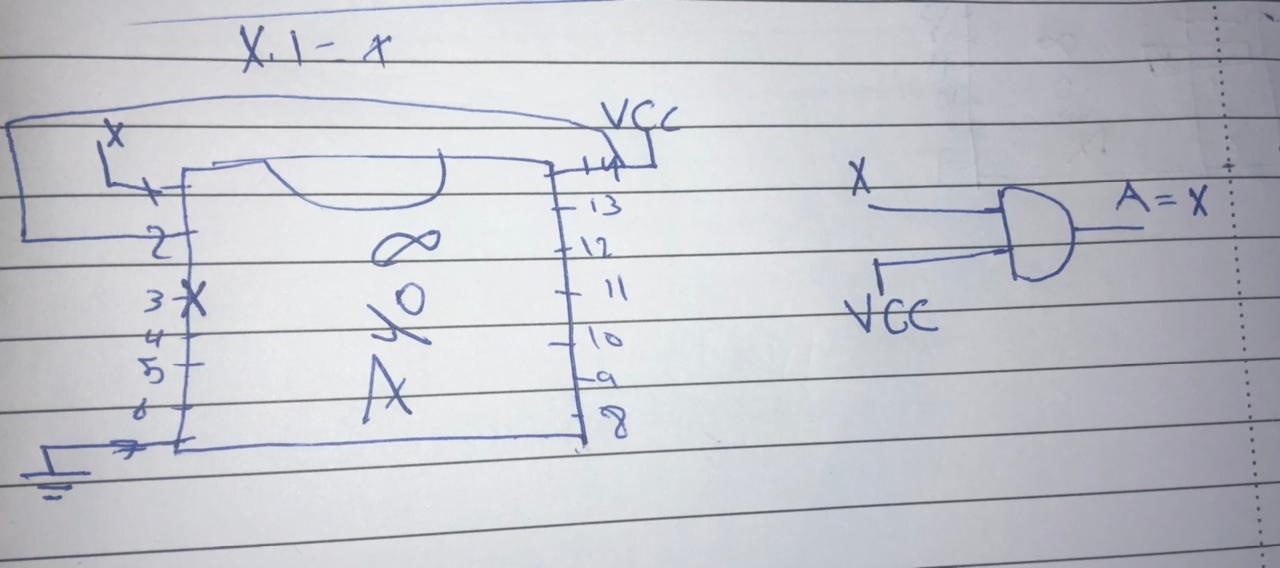
Description automatically generated

* X . 0 = 0

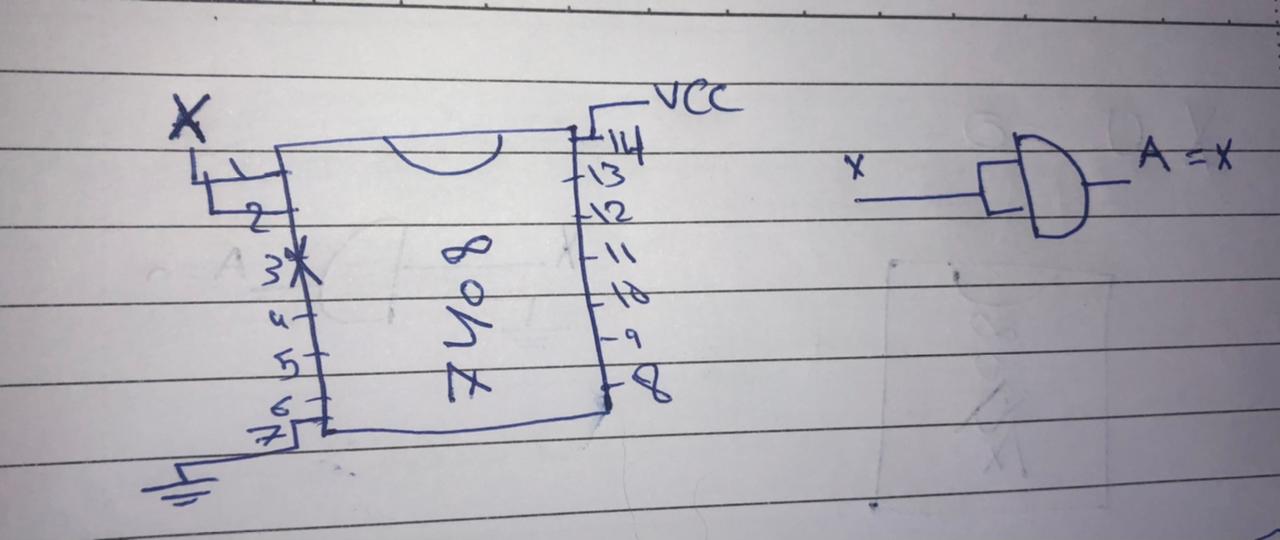
A picture containing text, whiteboard

Description automatically generated

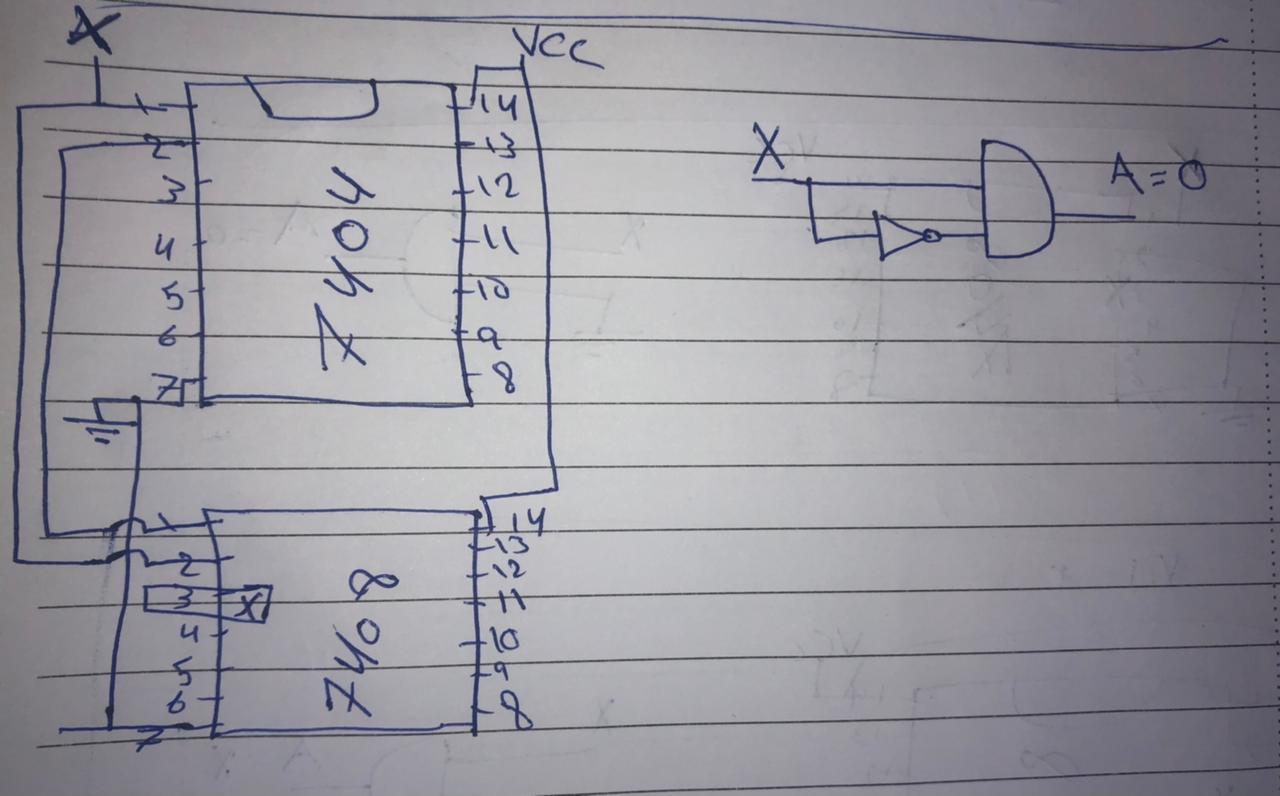
* X . 1 = X



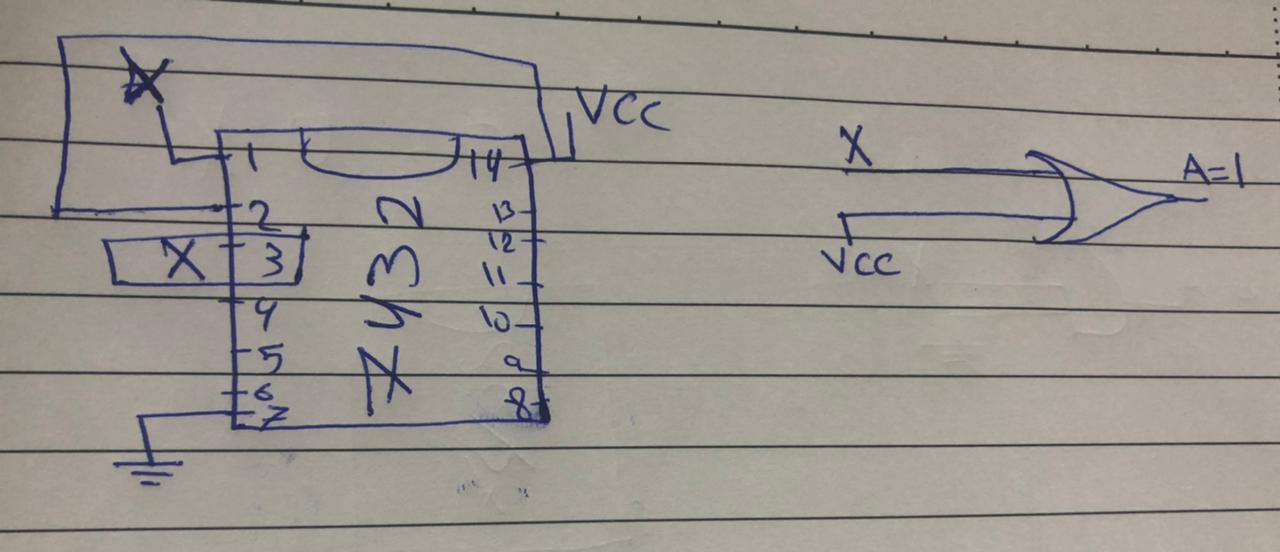
* X . X = X



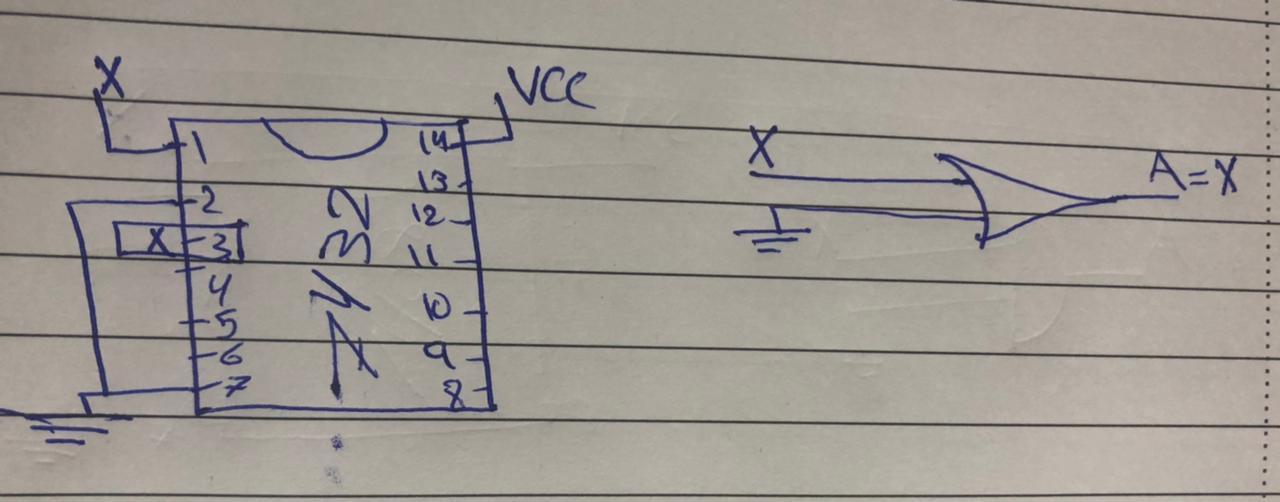
* X . X’ = 0



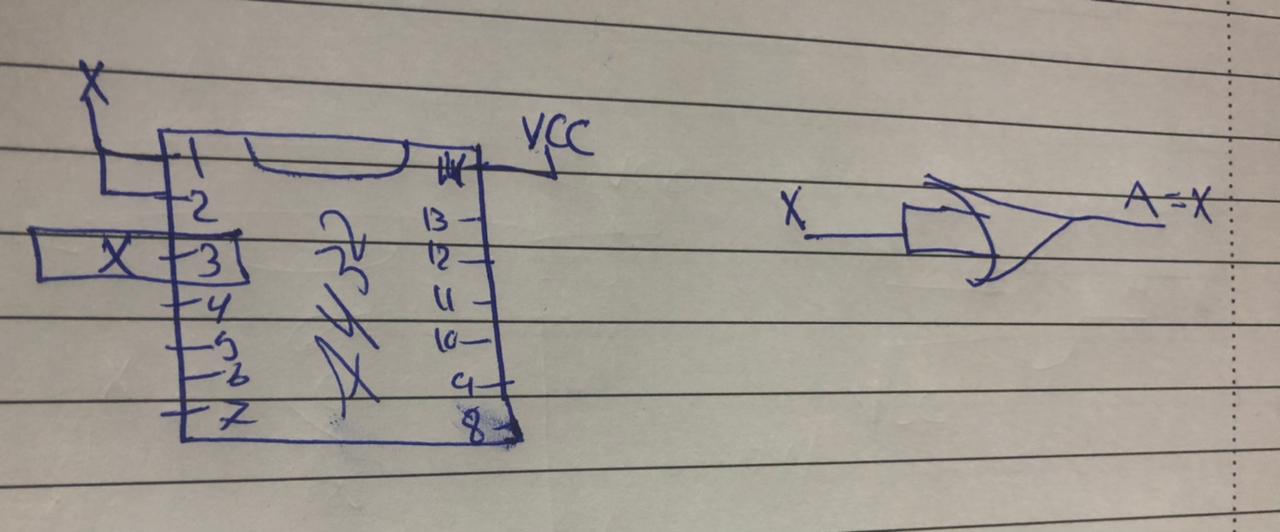
* X + 1 = 1

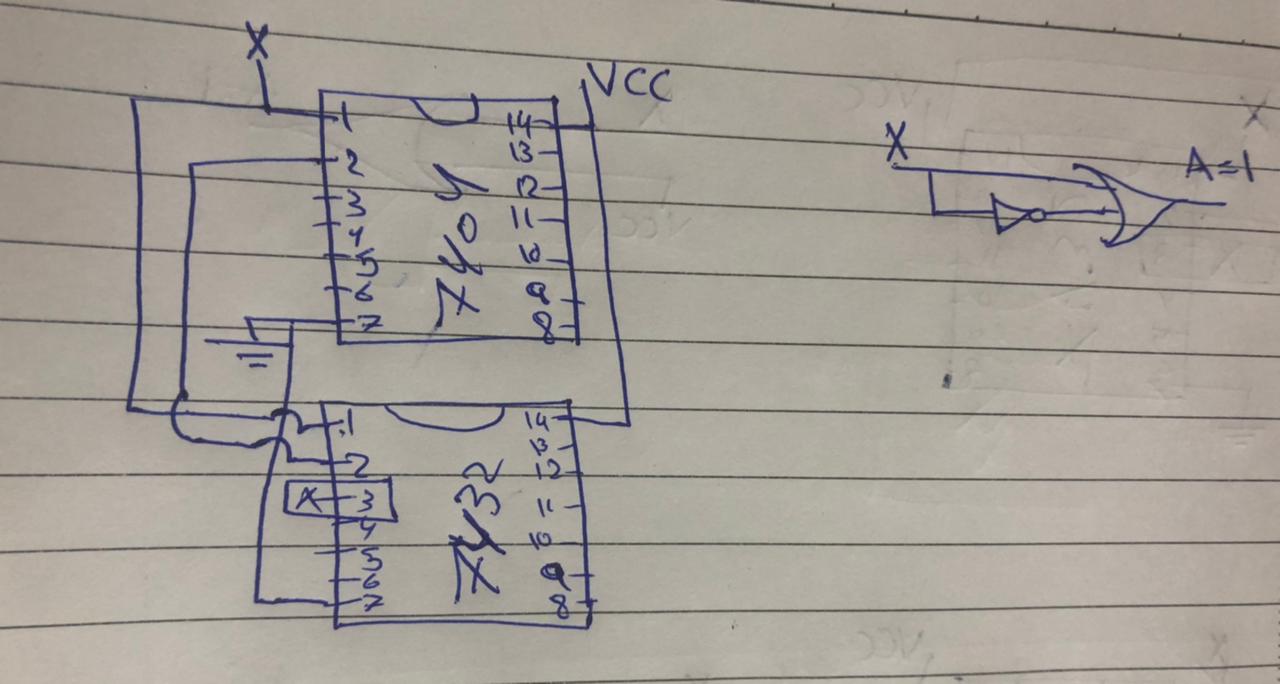


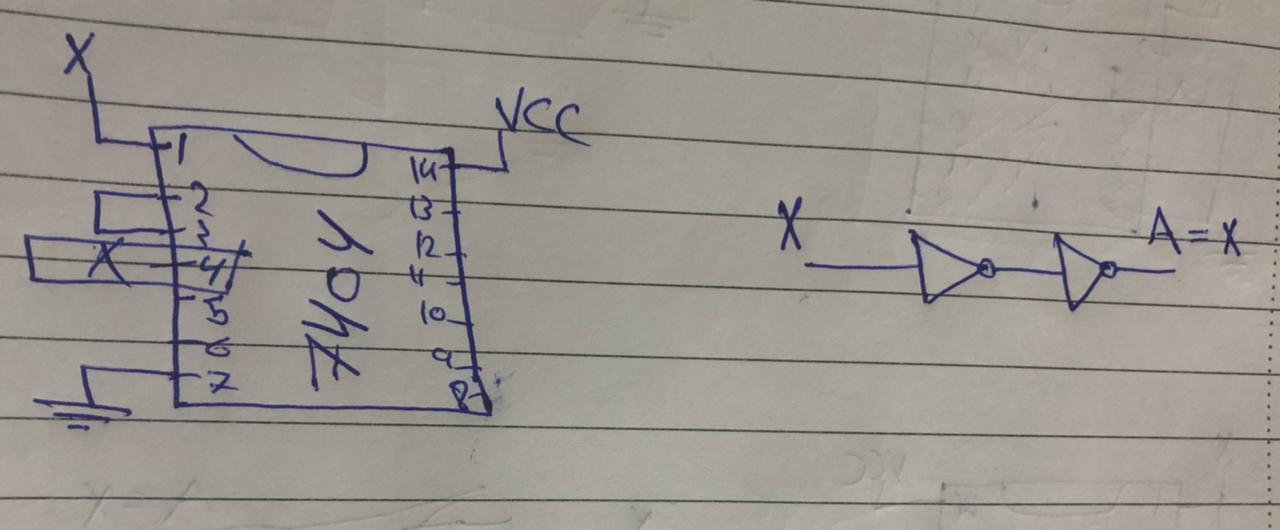
* X + 0 = X



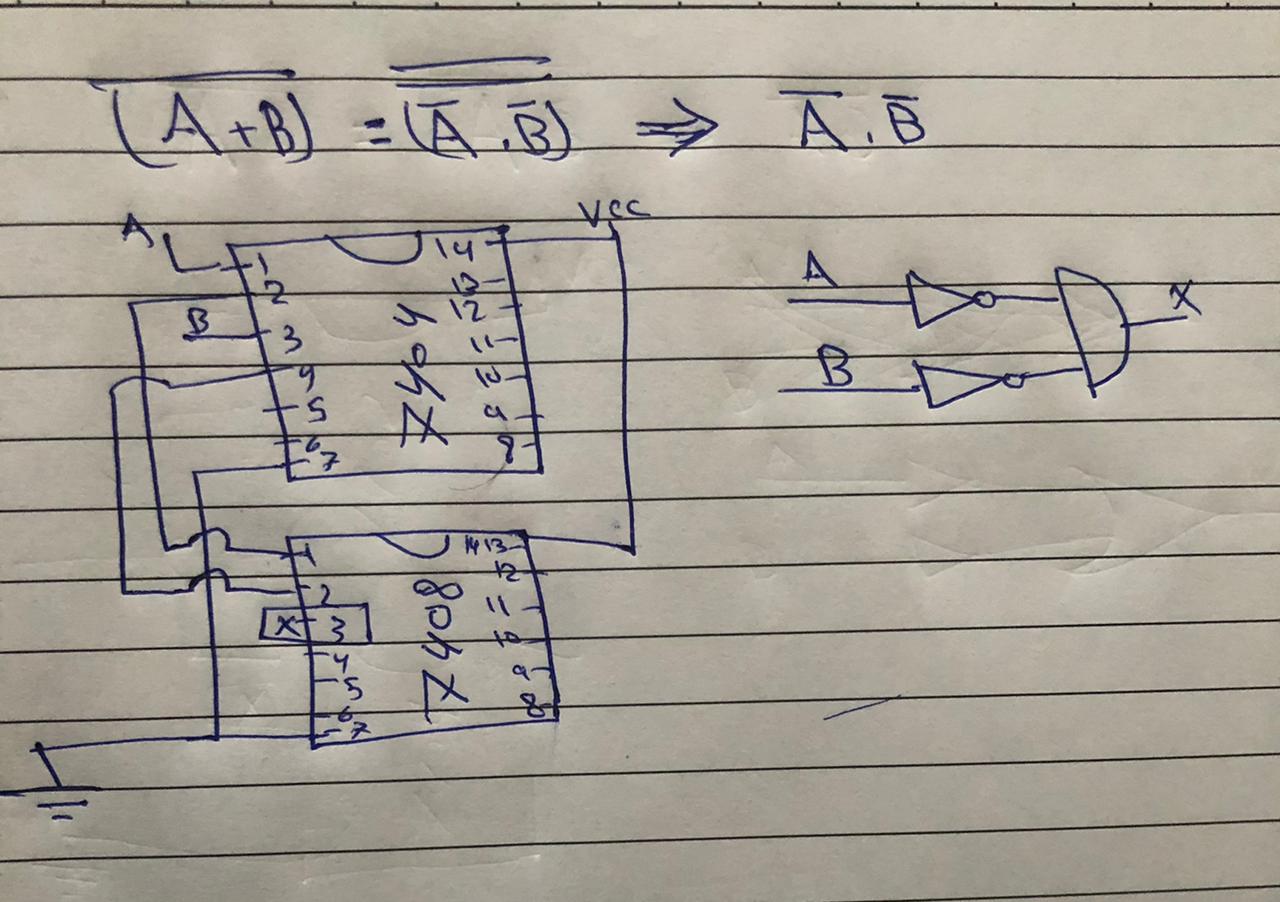
* X + X = X



* X + X’ = 1
* X’’ = X



* (A + B)’ = A’ . B’



* (A . B)’ = A’ + B’

