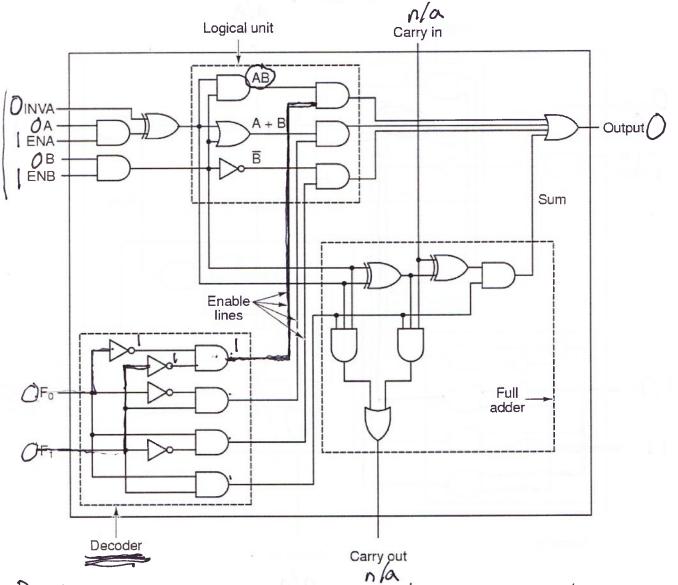
Lesson 10 0 or Logical unit Carry in OINVA-OA-I ENA-Output Sum Enable **∢** lines () F₀= Full adder Decoder Carry out nla since we are not using the adder, Cin/Cout does not get used

morgan ariss & mac craig



Docodor: logic device with n in puts, and 2" outputs

Game show analogy

ctrl lines = judges (n)

contestants (2")

out put: winner (1)

Latches:

1-bit register

log base 10

2 decimal points

nor gates

Gool: to remember/store 1 bit: Q

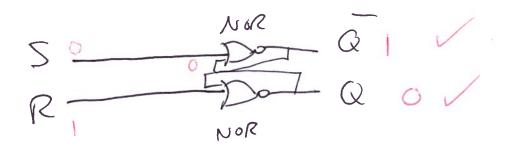
Build a 5-R latch: Set Q to 1

Peset Q to 0

- Know why

Row O of TT: Q & Memory two cases: (a) Q started of O (b) Q started at 1 NOR (a NOR stays at 1

i. An 5R latch can function as a memory.



Row!

Reset the latch

ie son

SO DO Q DO P

whether Q started at O or 1 if ends as O

An SR can reset and set

Last Row! Pow 3: SIRI NOR in consistent in its output nonsense for its input Q NOR

Use Need to change the SR latch to make -7
it better:

\[-\text{memory is OU.} \text{ it can store bits QQ (S=0, R=0)} \]

\[-\text{memory is OU.} \text{ it can store bits QQ (S=0, R=0)} \]

\[-\text{resetting works:} \left(S=0, R=1, Q\text{eds up at O}) \]

\[-\text{resetting works:} \left(S=0, R=0, \quad \text{""" 1)} \]

\[-\text{Setting} \quad \text{"S=1, R=0, """ 1)} \]

\[-\text{Setting} \quad \text{and resetting need to be prevented.} \]

- in consistent output

quizi
- presentation meterial
- presentation meterial
- SR latch
- SR latch
- logio of decimal #s to 2 decimal places: bonus
- logio