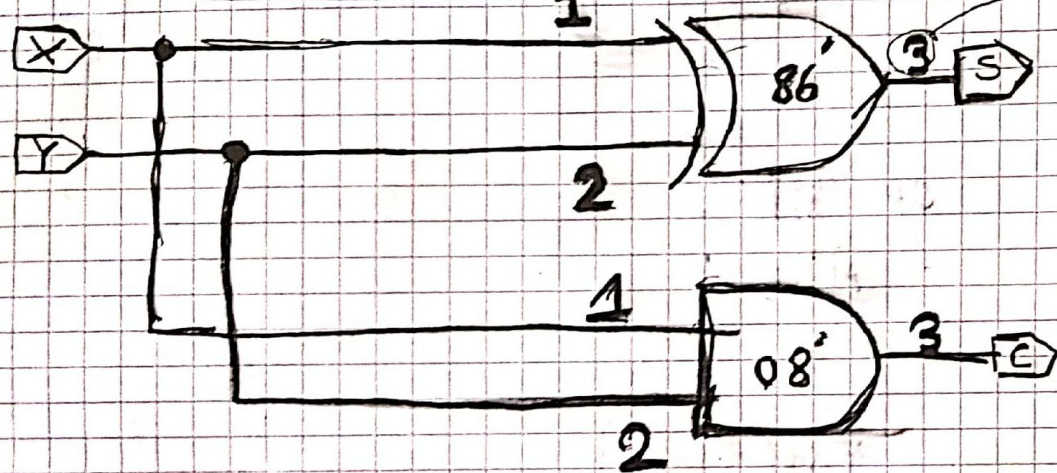


Fig 2

# Half Adder



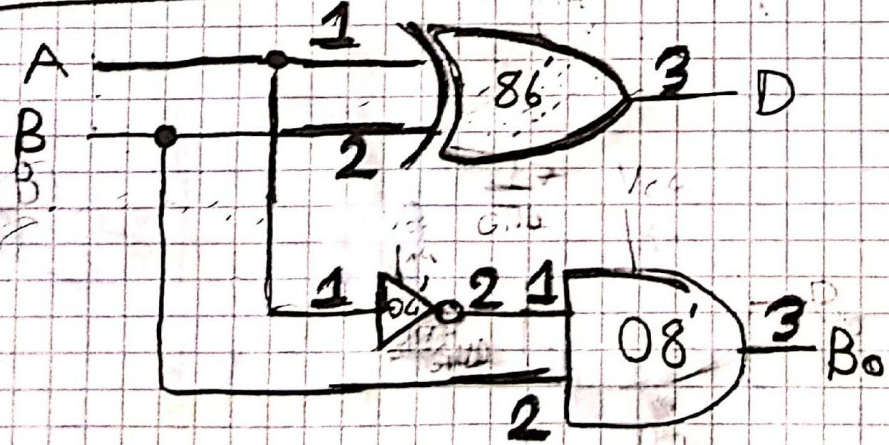
## IC List Fig 2

Half Adder

- ① One 74 LS 86 quad 2-input XOR Gate  
GND - 7 /  $V_{cc} (+5V) - 14$
- ② One 74 LS 08 quad 2-input AND Gate  
GND - 7 /  $V_{cc} (+5V) - 14$

Fig 3

# Half Subtractor



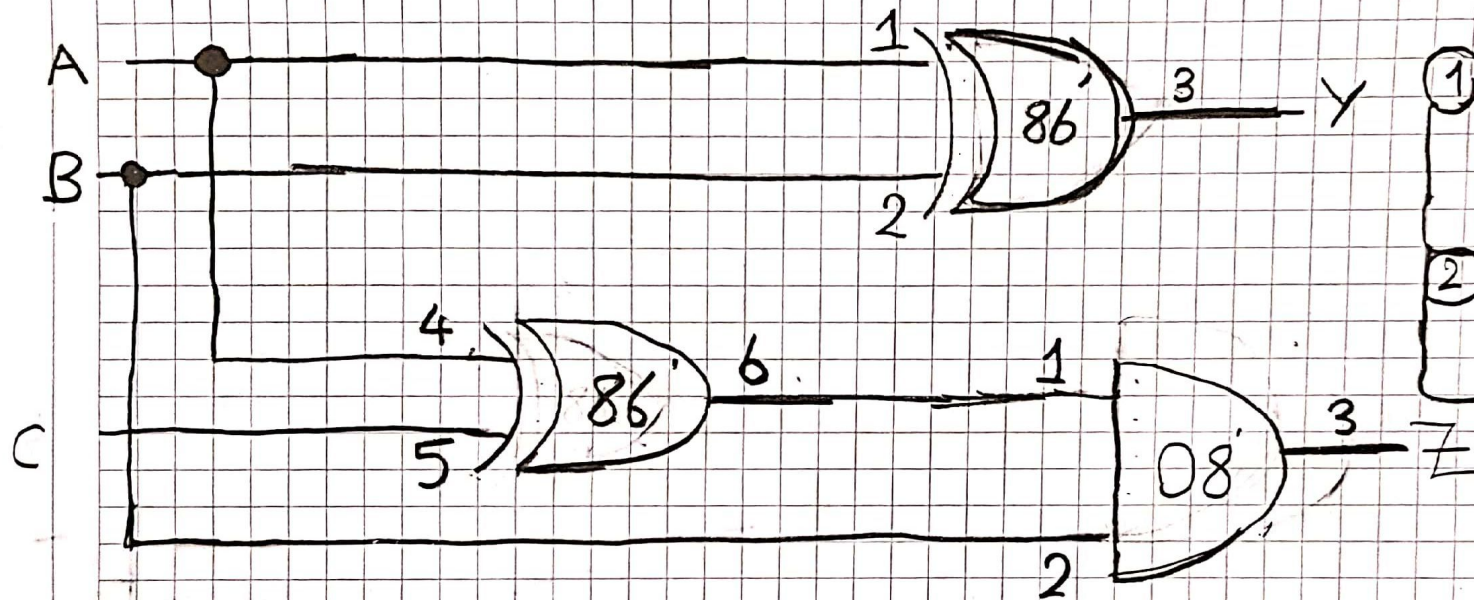
## IC List Fig 3

Half Subtractor

- ① One 74 LS 86 quad 2-input XOR Gate  
GND - 7 /  $V_{cc} (+5V) - 14$
- ② One 74 LS 04 six INVERTER  
GND - 7 /  $V_{cc} (+5V) - 14$
- ③ One 74 LS 08 quad 2-input AND Gate  
GND - 7 /  $V_{cc} (+5V) - 14$



# Figure 4 - Lab Calculator



IC List

Lab calc

- ① One 74LS08  
Quad 2-input AND Gate  
GND - 7 /  $V_{cc}$  (+5V) - 14
- ② One 74LS86  
Quad 2-input XOR Gate  
GND - 7 /  $V_{cc}$  (+5V) - 14