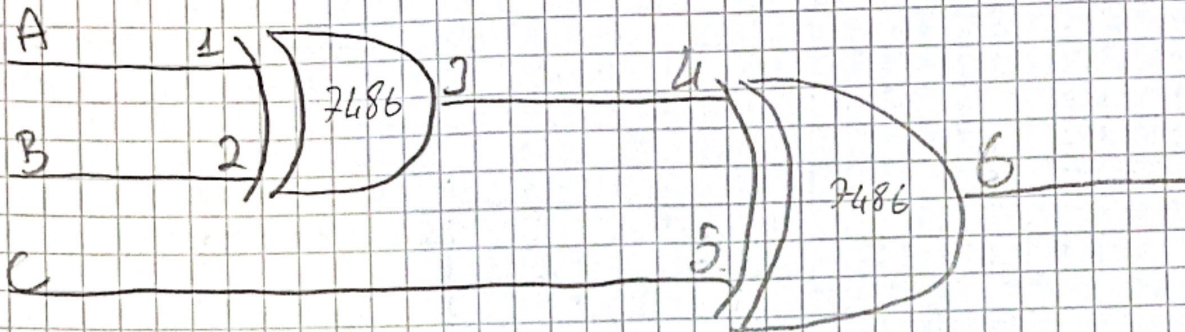
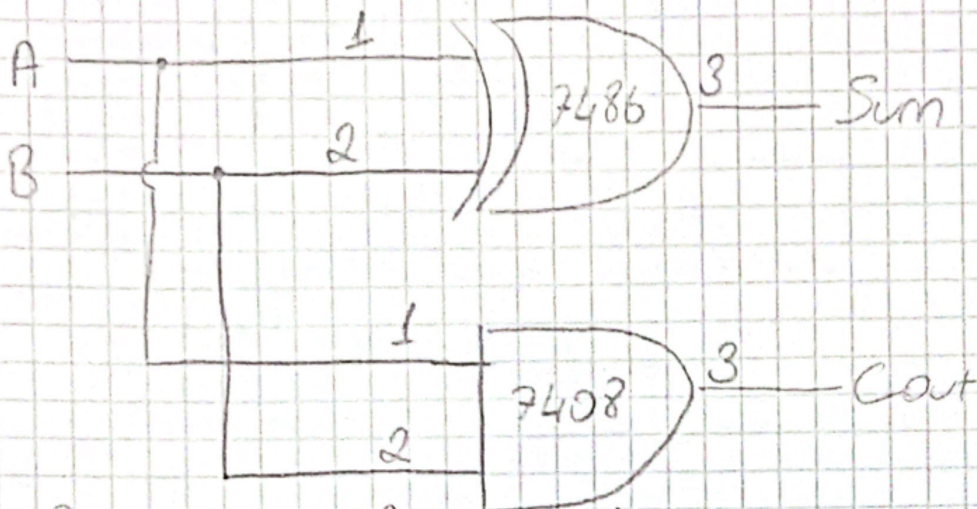


SCHEMATIC OF 3-INPUT XOR GATE USING 2-INPUT XOR GATES



⇒ One 7486 QUAD 2-Input XOR Gate
GND=7, $V_{CC}=14$.

CIRCUIT SCHEMATIC OF HALF-ADDER



Pin numbers & Ground and V_{cc}

1-) 7408 AND GATE: $V_{cc} = 14$, Ground = 7

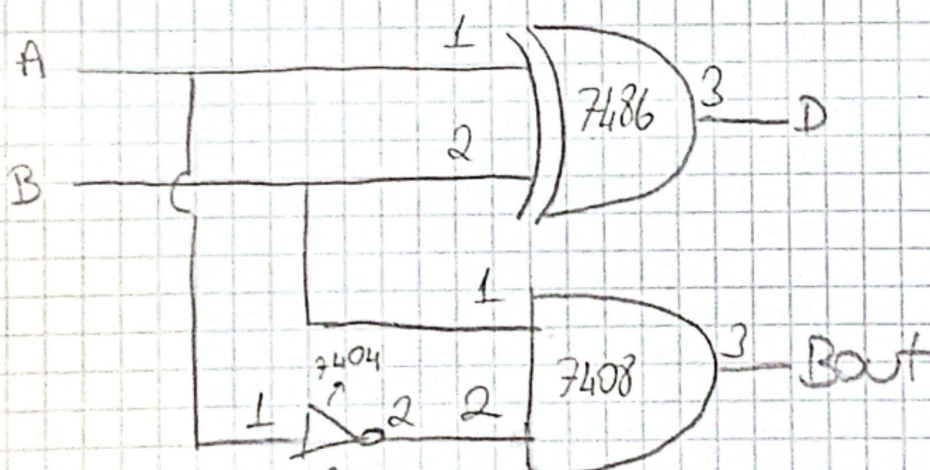
2-) 7486 XOR GATE: $V_{cc} = 14$, Ground = 7

IC'S

1-) One 7408 QUAD TWO-INPUT AND GATE

2-) One 7486 QUAD TWO-INPUT XOR GATE

CIRCUIT SCHEMATIC OF HALF-SUBTRACTOR



Pin Numbers & Ground and V_{cc}

1-) 7408 AND GATE: $V_{cc} = 14$, Ground = 7

2-) 7486 XOR GATE: $V_{cc} = 14$, Ground = 7

3-) 7404 Hex Inverting GATE: $V_{cc} = 14$, Ground = 7

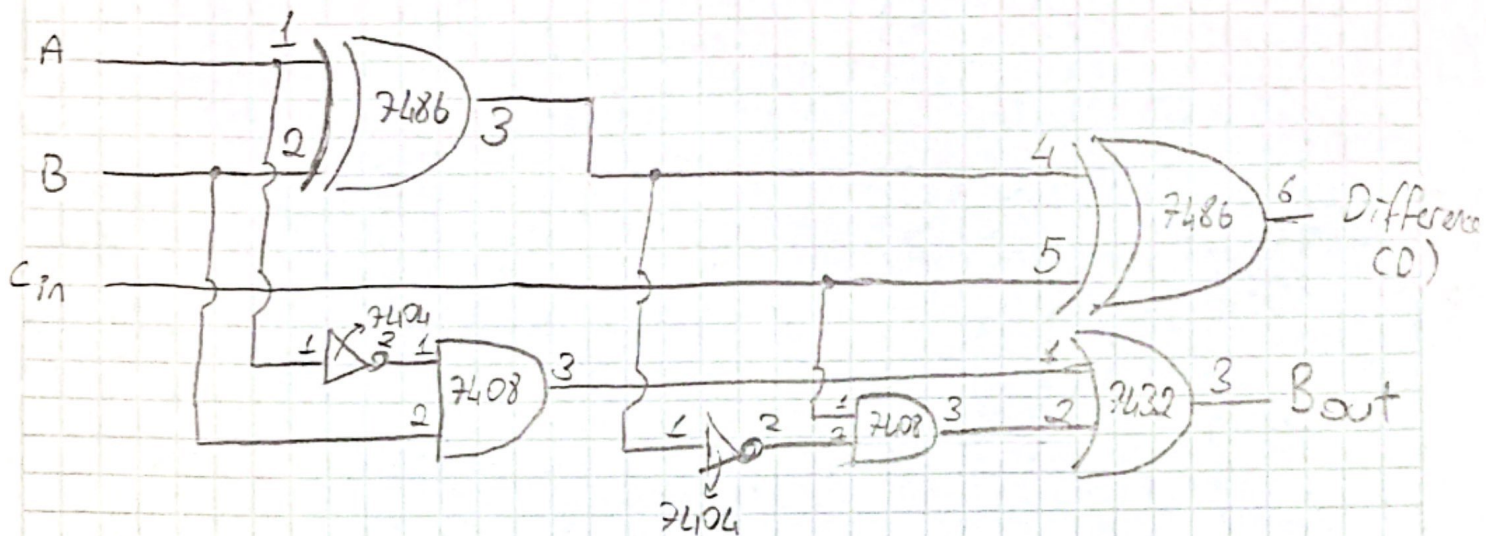
IC'S

1-) One 7404 Hex Inverting GATE

2-) One 7408 QUAD TWO-INPUT AND GATE

3-) One 7486 QUAD TWO-INPUT XOR GATE

CIRCUIT SCHEMATIC OF ~~FULL ADDER~~ FULL SUBTRACTOR



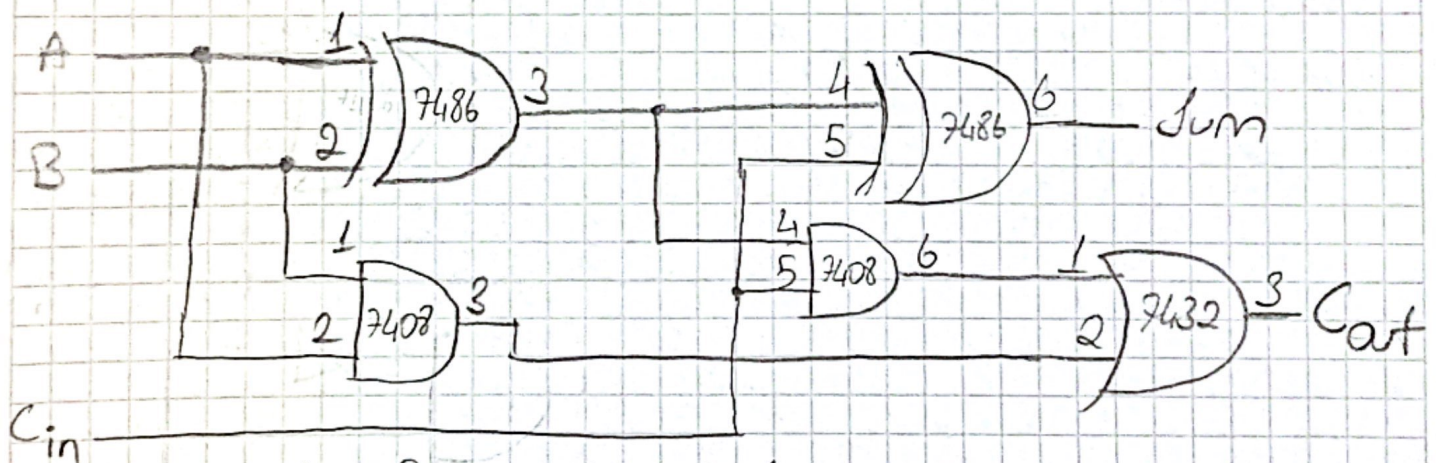
Pin Numbers & Ground and Vcc

- 1-) 7404 Hex Inverting Gate: $V_{cc}: 14$, Ground: 7
- 2-) 7408 AND Gate: $V_{cc}: 14$, Ground: 7
- 3-) 7432 OR Gate: $V_{cc}: 14$, Ground: 7
- 4-) 7486 XOR Gate: $V_{cc}: 14$, Ground: 7

IC's

- 1-) One 7404 Hex Inverting Gate
- 2-) One 7408 QUAD 2-input AND Gate
- 3-) One 7432 QUAD 2-input OR Gate
- 4-) One 7486 QUAD 2-input XOR Gate

CIRCUIT SCHEMATIC OF FULL ADDER



Pin Numbers & Ground and Vcc

- 1-) 7408 AND GATE: GND: 7, $V_{cc}: 14$
- 2-) 7432 OR GATE: GND: 7, $V_{cc}: 14$
- 3-) 7486 XOR GATE: GND: 7, $V_{cc}: 14$

IC's

- 1-) One 7408 QUAD 2-input AND GATE
- 2-) One 7432 QUAD 2-input OR GATE
- 3-) One 7486 QUAD 2-input XOR GATE