RELE LUTHE

```
2206028932
(1) @ 379<sub>10</sub> = 00 0 1 0 1 1 1 0 1 1
   -379 0 = 100000010111015M
       = 11111110100001006
       = 1 1 1 1 1 1 1 0 1 0 0 0 0 1 0 1 20
  6 643 g = 0 1 1 0 1 0 0 0 1 1
   -643 x = 1000000110100011 SM
       = 1 1 1 1 1 1 0 0 1 0 1 1 1 0 0 15
       = [ 1 1 1 1 1 1 0 0 1 0 1 1 1 0 1 20
 6 674 = 011001111100
   -67C16 = 1000011001111100 SM
       = 11 1 1 0 0 1 1 0 0 0 0 1 1
       = 1111100110000100
 (d) 111 2 = 0 0 1 0 0 1 0 0 1 0 1 0
   -11122=10000010010010100
       = 11 1 1 1 1 0 1 1 0 1 1 0 1 0 1 1 0 1 1
       = 1 1 1 1 1 0 1 1 0 1 1 0 1 1 0 26
 (e) 521 = 0 1 0 0 0 0 0 1 0 0
  -5212 = 1000000000000000000
       2 1 1 0 1 1 1 0 1 1 1 0 1 1 5
       = 1 1 1 1 1 1 1 0 1 1 1 1 1 1 0 0 26
(E) (100012 + 10015
  = - 1510 + (-610)
  = - 2110
  = 1001010154
```

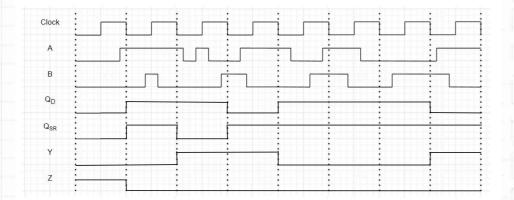
KOKLIYO LOOSE-LEAF /-807S-

ALDEN LUTHEI

2 2 0 6 0 2 8 9 3 2

© 10 10
$$1_{SM}$$
 - $1_{C_{1k}}$
= -5₁₀ - 28₁₀ = -33₁₀
= 11011110₁₅

REVISI NO 5

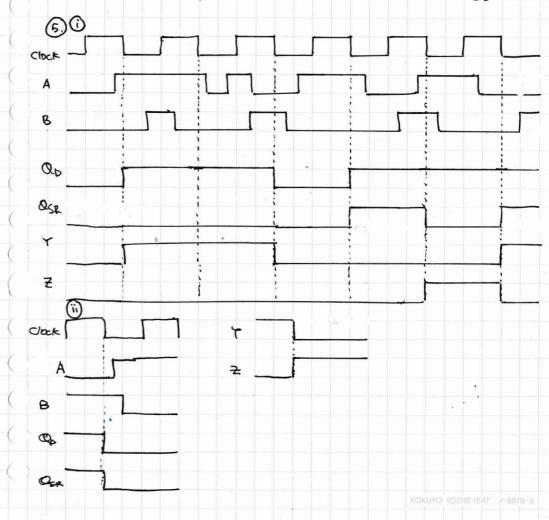


ALDEN LUTHF1
2 2 0 6 0 2 8 9 3 2

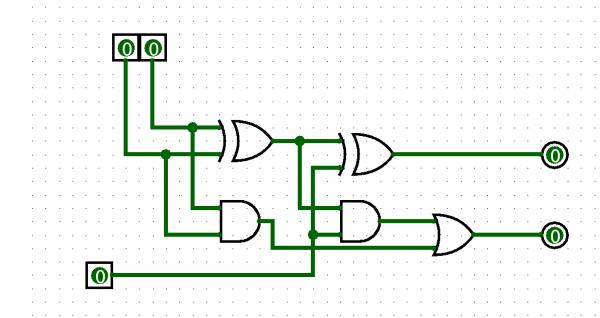
Synchronous: penubahan terjadi berdasan kan clock
pada waktu tertentu

Asynchnonous: tidak ditentukan olen clock

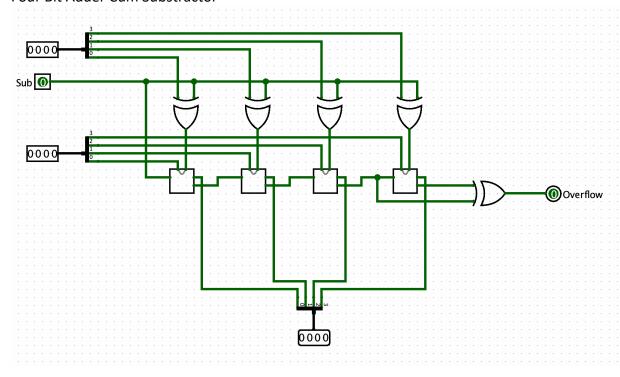
O Late adalah sequential circuit yang edg level-thiggered sedangkan flip-flop adalah sintuit yang edge-thiggered



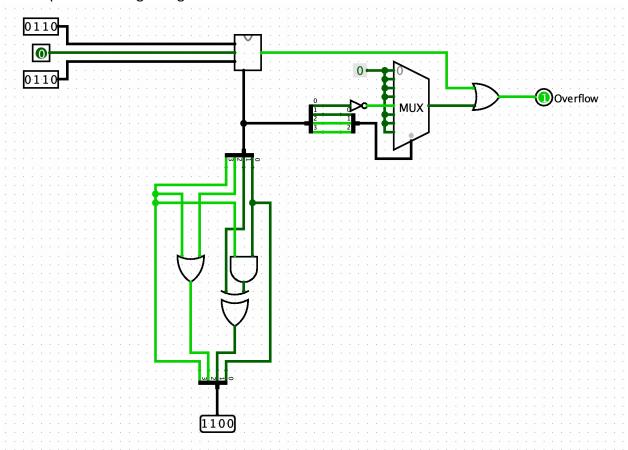
3. One Bit Adder



Four Bit Adder Cum Substractor



2s Complement to Sign Magnitude Converter



Final Circuit

