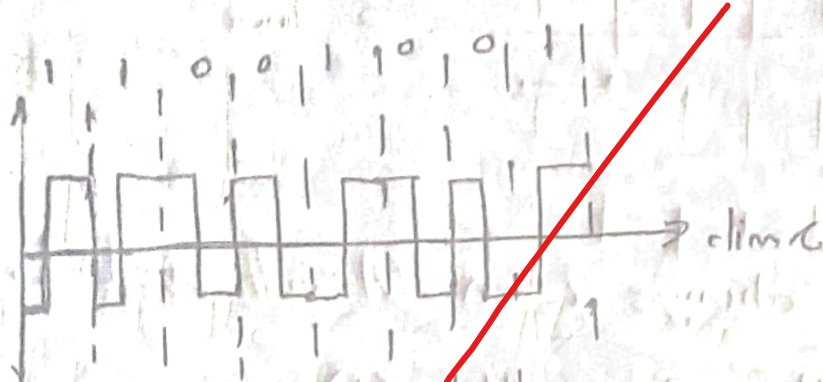


my birth date is 02/01/1999

$$\text{so } (0201)_{10} = (11001001)_2$$



Manchester

positive

Negative

Next bits Next level

Next level

00

+3

23

01

11

10

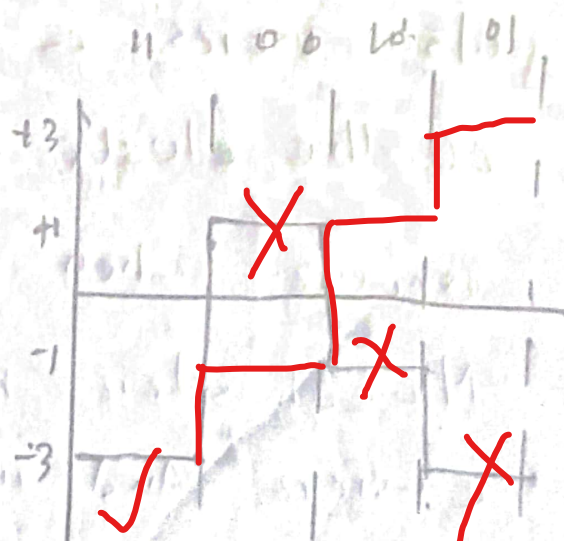
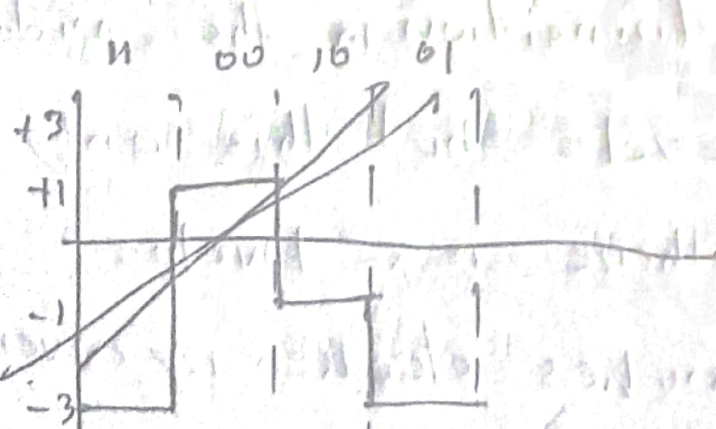
-1

10

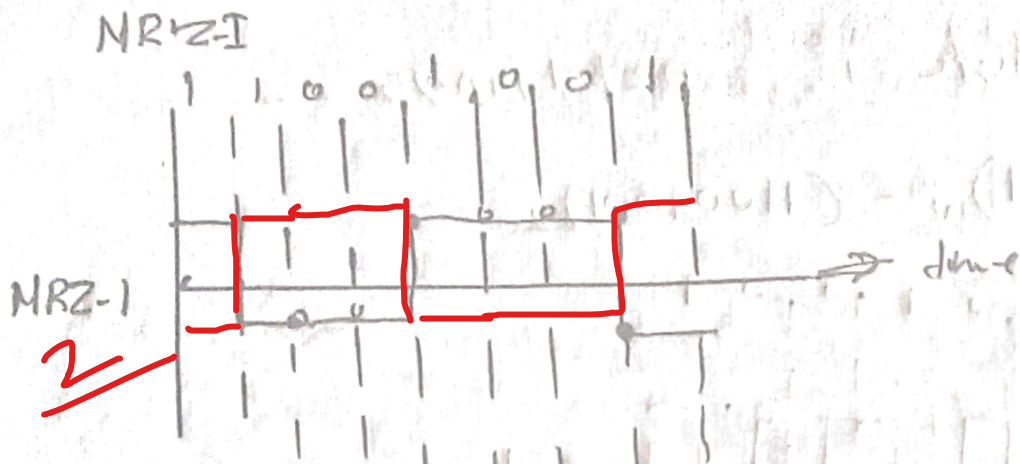
11

-3

+3



Assuming previous positive



It will change when it will get 1.

Ans to the Ques 14a (b)

Manchester and NRZI encoding have transitions in the middle of the clock cycle, with the type depending on the encoding. Manchester is an NRZI

also uses a transition in the middle of the clock cycle, but this only occurs when there is a 1 value. Manchester makes clock recovery easier. And in 2B1Q it takes two binary, one quadrature. So 9 meters Manchester