3.2.1.

Col Colc remainder of x7+x5+1 divided by x3+1

1001 1001 1000,0,1 1001 001100, 1001 01010

| R=x2 +x+1

3.22.

Bit stream 10011101 is transmitted with CRC, polynomial x3+1

a) Show the bit string honomitted

6) Suppose the third bit from the left is inverted in transmission. Show he that the receiver detects it.

c) Give an example of ease sit errors not dehedred.

01000 01000 01000 01000 01000 01000 01000

The string transmitted is

K(x) (x5+x) = (x3+1)(x5+x) = x8+ x5+x4+x

6) Rx = 10111101100

00000000

The remainder at receiver is 100 = 000

(2) Undetected: multiples of (1x).

(2) [Ex = 00100110010]

(x = 10011101100

(x = 1011101110

1001 (001) (001) (001) (001) (001)

00001 < Undehecked