1. Consider a 1 bit error correcting Hamming code. Let the codeword be 7 bits and the message 1100. Find the codeword – show all work – use a diagram like in the book.

2. Consider a CRC code used at a receiver. Let G(x)=10011 and R(x)=1011000 where G(x) is the generator and R(x) is the received codeword. Is there an error in the received codeword? Note: since this is a receiver problem the check bits are in R(x), you do not have to calculate them.