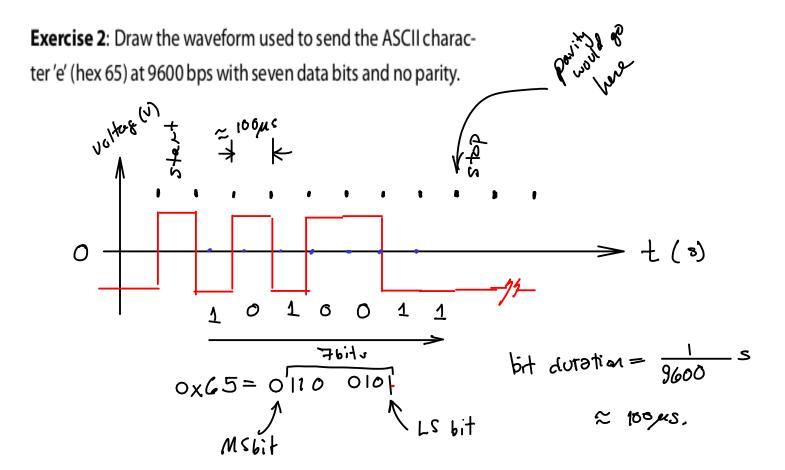
Lecture 4 - Asynchronous Serial Interfaces



Exercise 3: Will the parity bit allow the receiver to detect all single-bit errors? All double-bit errors?

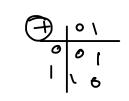
yes w

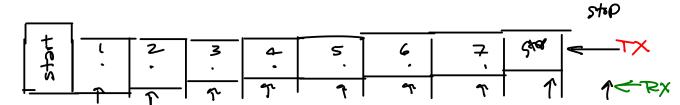
Exercise 4: What happens if the receiver's clock is running faster than the transmitter clock?

- receiver will sample earlier & earlier within the bit time

- if the clock error is sufficiently large it will sample the same bit twice & treat the MS bit as the stop bit (probably resulting in an error).

Exercise 5: What would happen if the receiver was expecting 8-bit characters and the transmitter was sending 7-bit characters? What about the reverse case?





reverse case:

things!

Morning

counter_ examples:

$$AO = Ls$$
 bit of an address but $H=0$, $L=1$