Exercise 1: Is the "Transmit Data" (TxD) signal an input or an output? How about "Receive Data" (RxD)? Is a computer a 'modem' (DCE) or a 'terminal' (DTE)?

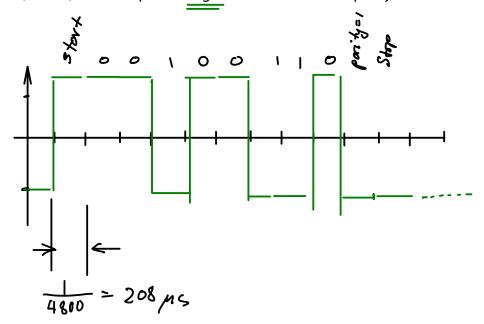
TxD is neither or both or either

PXD: some

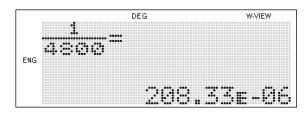
computer: usually ATE

unless connected to another computer.

Exercise 2: Draw the waveform used to send the ASCII character 'd' (hex 64) at 4800 bps with eight data bits and even parity.



0x64
=01100100
reversed:
00100110
humber of 16
= 1+1+1=3
for even proto
parity bif = 1.

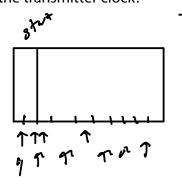


Exercise 3: Will the parity bit allow the receiver to detect all single-bit errors? All double-bit errors?

L> yes | changes p Brity

> No. parity is unchanged.

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



-> receive wrong bit values (deputy speed mismatch).

