a. 2.30 d. 2 +, # + == # + KZZ, f. E. E. B. and to = f. for Q. 2.30 Assume L= Context Free S= GB# GB EL Let vxy fell on oneside of #

then pumping once uvxxx2 results.

in astring where t, #t2, so uvxxy2 is not Let # be contained in Vory. Le con pump down to uvexyez, the swill not have # and will not be in L. Let x contain #, Vointins b, yountins a Pumping down to uvxy2 reduces the number of b's in to and a's in to.

Now t, # to, therefore notin L. All case contradict there dore Lis context free