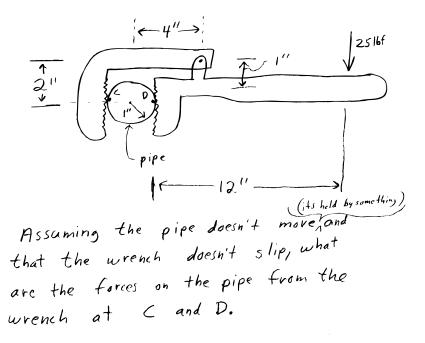
TAM 202, Homework 7, due tuesday March 7, 2001 (2 problems in total)



2) A bicycle is balanced in & out of the paye (2 direction) by forces you should ignore. At the moment of interest the right Crank (attaching the crank axle to the prodal) is straight down. What force F is needed to keep the bike from moving if a) A person sitting on the bicycle pushes the right pedal backwords with a 10 lbf., For a real bike is F>0 or F<0? b) A person standing next to the bicycle pushes back on the right pedal with a force of 1016f. For a real bike is F>0 or ? Answer in terms of (Try it on a real bite. 3 rs=rear sprocket tw = wheel radius radius [HINTS] r= crank radius to pedal FBD of chant & rz = chain wheel radius chainwheel =) chain tension, FBD of rear wheel = ground force forward F=? wheel compiat rear wheel FBD of whole bike 37 F chain wheel Crank rear sprocket no tension in lower chain.