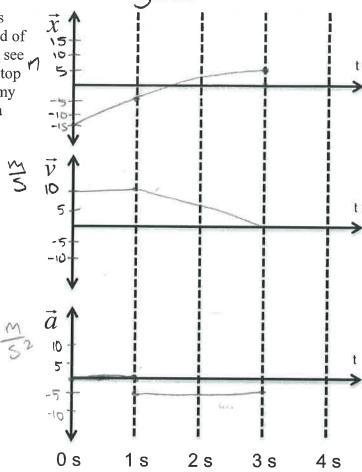
1) My mass is 70 kg, and the mass of my bike is 10 kg. I'm riding my bike at a constant speed of 10 m/s. After 1s, my displacement is -5 m, I see a car, apply a constant force, and slow to a stop over a period of two seconds. Please graph my acceleration, velocity, and displacement as a function of time. Label the axes correctly.



9/A

2) In the last problem, please find

a) The force exerted by my breaks

b) The work done by my breaks and the average power.

c) Was energy conserved in this process? How?

c) Energy was conserved , but in different forms.

knetic energy was turned into Neat (thermal energy) by the friction of the previous