Stopping Distance

2. A 2500 kg car traveling to the north is slowed down uniformly from an initial velocity of 20.0 m/s by a 6250 N braking force acting opposite the car's motion. Use the impulse-momentum theorem to answer the following questions:

    a. What is the car's velocity after 2.50 s?

    b. How far does the car move during 2.50 s?

    c. How long does it take the car to come to a complete stop?