## Problem 2

A plane with a mass of 80,000 kg is traveling a velocity of 200 meters per second when the engines cut out. 20 seconds later, it's noticed that the velocity has dropped to 190 m/s. Assuming the plane is not gaining or losing altitude, what is the average drag force on the plane?



$$(F)(f) = MV_{f} - MV_{i}$$

$$(F)(20s) = (80000 h_{5})(190 m_{1s}) - (80,000 h_{s})(200 m_{1s})$$

$$F = 40,000 N = 40 hN$$