Friction HW

1) A man with a mass of 105 kg is skiing down a mountain what is the friction force between his ski's and the snow?

2) A Fisherman has just arrived from a long day of fishing in which he caught a massive white shark. If the Fisherman's mass is 109 kg and the sharks mass is 85 kg, what is the total weight of the system.

3) In order to walk across the asphalt docks the fisherman must overcome the force of friction between his rubber soled shoes and the dry concrete dock. Calculate the force he needs to overcome to start moving and keep moving forward at a constant velocity.

4) A 2016 Honda CRV uses its rubber tires and friction to break. If it takes 17888 N of force to stop the vehicle on a wet asphalt highway what is the mass of the vehicle?

5) A bullet with a mass of 0.06 kg is slowed by a force of 8.0×10^{-6} N. What is the coefficient of friction for his interaction?