Review chapter 9

1. What is the momentum of a 140 kg football player traveling at 27 m/s?
2. What impulse is needed to stop a 40 kg mass traveling at a velocity of 17 m/s?
3. A force with a magnitude of 370 N is used to stop an object with a mass of 62 kg traveling at 125 m/s. How long will it take to bring the object to a stop?
4. A car with a mass of 1200 kg rolls on ice at 33 m/s and strikes another non-moving car with a mass of 700 kg. The 1st car stops completely. At what speed does the 2nd car move away?
5. A ball with a mass of 7 kg is moving at 20 m/s and collides with another ball with a mass of 21 kg moving at 10 m/s. After they collide, the 7 kg ball continues moving at 13 m/s. Find the final velocity of the 21 kg ball.
6. Complete problems 33 – 34, 36 – 37, 49 – 50 on pg. 250