Impulse – Momentum Theorem

Chpt 9 rev A

1. A 600.0 g ball traveling at 1.2 m/s strikes a 600.0 g ball that is at rest. What is the impulse applied to the first ball

2. A proton has a mass if 1 AU (1.66×10^{-27} kg) and is traveling at 5.2×10^{5} m/s and strikes another proton that is stationary and comes to rest, What is the impulse applied by the second proton?

3. A 27 g mass falls from a table 1.2 m high and hits the ground. A) What impulse is applied to the mass" b) What applies the impulse? C) What velocity does the mass hit the ground at?

4. Adler is 70. Kg and jumps off of a 50 cm platform. A) What is change in momentum when hits the ground? B) What force is applied by the ground if he stops in 0.30 s