Work Power & Energy (WORKSHEET 6)

- 1. An object of mass 0.4kg moving with a velocity of 4m/s collides with another object of mass 0.6kg moving in same direction with a velocity of 2m/s. If the collision is perfectly inelastic, what is the loss of K.E. due to impact?
- 2. Prove that in an elastic collision in one dimension the relative velocity of approach before impact is equal to the relative velocity of separation after impact?
- 3. Derive expression for inelastic collision in one dimension
- 4. Derive expression for inelastic collision in two dimension
- 5. Give three Examples of elastic and inelastic collision.