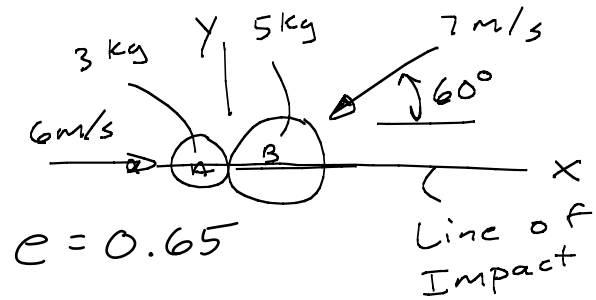


## Impact

**Problem Statement:** Determine the magnitude of the velocities just after impact.



1.) Decide which type of impact is occurring.

2.) Apply the conservation of momentum for the system of particles along the line of impact.

3.) Apply the coefficient of restitution equation along the line of impact.

4.) Solve for the velocity components along the line of impact.

5.) If an oblique impact, solve for the velocity components along the plane of contact, and then the total velocity.