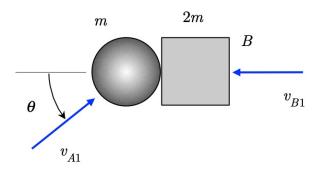
Homework H.4.P

Given: Particles A and B impact each other with initial velocities shown in the figure. The coefficient of restitution for this impact is e.

Find: For this problem:

- (a) Determine the velocities of A and B after the impact. Write your answers as vectors.
- (b) Determine the energy loss during the impact as a percentage of the initial energy of the system.



HORIZONTAL PLANE

Use the following parameters in your analysis: m=2 kg, $v_{A1}=10$ m/s, $v_{B1}=10$ m/s, $\theta=30^{\circ}$ and e=0.

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