

## Phys171 - Tue 3/13

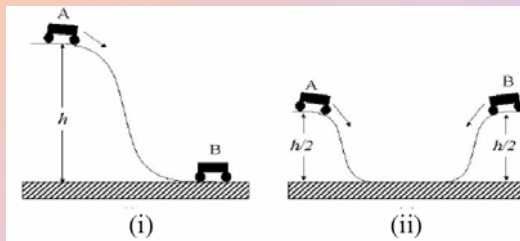
No office hours Thu

Note: Please work ahead on the HW, since Ch 11,12 will be due the SAME week (April 6)

Note: Friday March 30, Midterm 2 (including chapter 11) HW will be due on THU

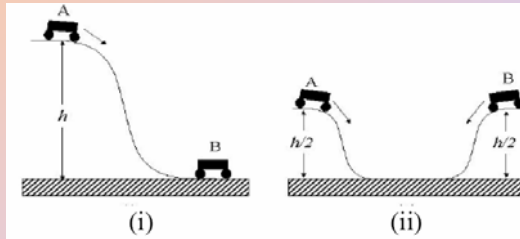
Two identical carts roll down hills and stick together in two different situations. Which one of the following statements is true just before the carts collide in two cases?

1. the kinetic energy of the system is greater in case (ii) than case (i).
2. the kinetic energy of the system is the same in both cases.
3. None of the above



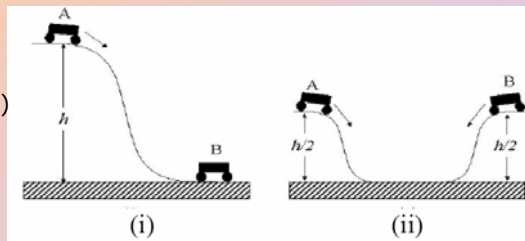
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Two identical cart roll down hills and stick together in two different situations. Which one of the following statements is true just before the carts collide in two cases?

1. the momentum of the system is greater in case (i) than in case (ii).
2. the momentum of the system is the same in both cases
3. the momentum of the system is greater in case (ii) than in case (i).



Two identical cart roll down hills and stick together in two different situations. Which one of the following statements is true just AFTER the carts collide in two cases?

1. Energy is conserved
2. Momentum is conserved
3. Both momentum and energy are conserved

