

# Physics 1114 - General Physics I

## Quiz #19 - 2012.10.10

### Solutions

---

1. What advantage is there to using a system's center of mass?

Instead of dealing with each object in a system, one can consider the system as a whole, and can compute the system's velocity, total momentum, and much more, given the system's center of mass.

2. For an isolated system for which the total momentum is conserved, what can we say about the velocity of the system's center of mass?

Velocity is constant.