Homework #3 Due Wednesday, September 24, 2014

Reading. This week: Chaps 4 & 5. Next week: 5 & 6.

- 1. HRW Chap 4, P56.
- 2. HRW Chap 4, P61.
- 3. A purse at radius 2.00 m and a wallet at radius 3.00 m travel in uniform circular motion on the floor of a merry-go-round as the ride turns. They are on the same radial line. At one instant, the acceleration of the purse is $(2m/s^2)\hat{i} + (4m/s^2)\hat{j}$. At that instant and in unit-vector notation, what is the acceleration of the wallet?
- 4. HRW Chap 4, P67.
- 5. HRW Chap 5, P5.
- 6. HRW Chap 5, P25.
- 7. HRW Chap 5, P42.
- 8. HRW Chap 5, P51.
- 9. HRW Chap 5, P54.