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- Various changes in a particle's motion may produce an acceleration
 - The magnitude of the velocity vector may change
 The direction of the velocity vector may change

Physics 207: Lecture 4, Pg 25

(Even if the magnitude remains constant)Both may change simultaneously

Recap of today's lecture

- Chapter 3, Chapter 4.1, 4.2
 - Coordinate systems
- Vectors (position, displacement, velocity, acceleration)
- Vector addition and the scalar product
- Kinematics in 2 or 3 dimensions
- Independence of x, y and/or z components

Assignment: Finish reading Ch. 4, begin Chapter 5 (5.1 and 5.2)

- WebAssign Problem Set 1 due tomorrow (should be done)
- WebAssign Problem Set 2 due Tuesday next week (start today)
- (Slightly modified from original syllabus)

Physics 207: Lecture 4, Pg 26