

PHYSICS 160 READING ASSIGNMENT FOR FEBRUARY 4 SECTIONS 3.1 - 3.3

3.1 - Position and Velocity Vectors

- Position vector is from the origin to the current location of a moving object.
- Velocity vector - how fast and direction that an object is moving towards.
- The components of the position vector are related to the components of the velocity vector.
- The velocity vector is tangent to the object's trajectory.
- Trajectory - path taken by a moving object.

3.2 - Acceleration Vector

- Given the pace of the course, we'll skip over the part of section 3.2 about parallel and perpendicular components for now.
- The components of the acceleration vector come from the components of the velocity vector.

3.3 - Projectile Motion

- Projectile - object moving in two dimensions due to gravity only
- Look over the examples carefully.