

Tuesday, March 19/13  
Physics 112/111

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1. **Optional Rewrite: Test Unit #1 - Thursday During Class**

2. Textbooks

3. Practice Problems (PP) - Page 137: 1-4

4. Contact/Non Contact Forces

5. FBDs

6. State of Equilibrium

7. Practice Problems (PP) - Page 144: 5-7

P2 | P4  
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class. | class



## Test - Unit #1 - Outline

1. physics
  2. kinematics/dynamics
  3. frames of reference: fixed/moving
  4. scalar quantity - magnitude only
  5. conventional directions
  6. vector quantity - magnitude and direction
  7. examples of scalar and vector quantities
  8. graphical addition of vectors: tip-to-tail/parallelogram method
  9. analytical addition of vectors
  10. Level 1 - subtracting vectors  
- perpendicular components
  11. vocabulary: distance, position, displacement, time,  
speed, velocity, acceleration
  12. symbols and units of physical quantities
  13. types of motion: uniform/uniformly accelerated
  14. position-time graphs
  15. velocity-time graphs
  16. relationship between directions of velocity and acceleration
  17. checklist for word problems
  18. motion equations including derivations
  19. acceleration due to gravity
  20. freely falling bodies
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