

Monday, March 18/13
Physics 112/111

1. Return: Test Unit #1
Optional Rewrite -> Thursday During Class
See the next page for the test outline.
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2. Textbooks
3. Practice Problems (PP) - Page 137: 1-4
4. Contact/Non Contact Forces
5. FBDs (Free Body Diagrams)
6. State of Equilibrium
7. Practice Problems (PP) - Page 144: 5-7



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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