

Friday, January 9/15
Physics 122/121

Task Sheets

Kepler's Lab - Shelby, Duncan

1. Quiz U2 - S2 -> Rewrite: Friday During IS
 2. Electric Fields - Diagrams
- Strength/Intensity of Electric Fields
 3. Textbook: Page 646, #11-14
Page 655, #20-24
 4. Electric Potential Energy
 5. Electric Potential Difference (Voltage)
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6. Electric Current
 7. Textbook: Page 696, #4-10
 8. Ohm's Law
 9. Textbook: Page 714, #21-24
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Physics 122/121 - Final Exam

Unit 1

- > force problems
 - push/pull
 - suspended objects
 - **incline plane**
- > static torque
 - **horizontal (L2)**
 - **involving an angle (L1)**
- > relative velocity
- > collisions
 - 1 D
 - simple
 - elastic/inelastic
 - **2D**

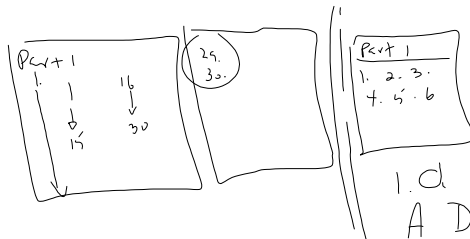
Unit 2

- > projectiles
 - horizontal
 - **fired at an angle**
 - no trig (L2)
 - trig (L1)
- > SHM
 - pendulum
 - **mass on a spring**
- > **Law of Universal Gravitation and planetary motion**
- > circular motion
 - **horizontal circular motion (L2)** unbanked curve
 - **vertical circular motion (L1)** banked curve

Unit 3

- > electrostatics
 - electrical charges
 - transfer of charge between identical objects
 - electric force - Coulomb's Law
 - 2 charges
 - **3 charges**
 - **in a line**
 - (at an angle)
 - electric fields
 - diagrams
 - electric field strength
 - electric potential energy
 - electric potential difference
- > electric current
 - conventional current/electron flow
 - circuit symbols
 - open/closed circuits
 - ammeters/voltmeters
 - resistance in a wire
 - **Ohm's Law**
 - circuits
 - series
 - parallel
 - **complex/combination**
 - **VIR chart**
 - (power)

multiple choice = 30
problems = 11



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- a) $W \leftarrow$
- b) $W + F_N$
- c) $W - F_N$
- d) $-W + F_N$