Wednesday, January 7/15 Physics 122/121

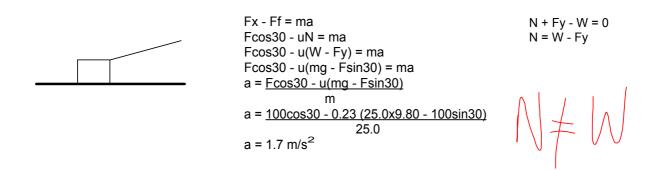
Task Sheets

Kepler's Lab - Shelby, Duncan

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

Formative Assessment - Pull Problem Wednesday - January 7/15

A 25.0 kg block is pulled along a horizontal surface by a string. The string makes an angle of 30° to the horizontal and is pulled by a 100 N force. If the coefficient of friction between the surface and block is 0.23, what is the acceleration of the block?



The acceleration of the block is 1.7 m/s², right.

Physics 122/121 - Final Exam

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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) habaaked curve
      - horizontal circular motion (L1) banked culle
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)
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