Monday, January 13/14 Physics 122/121

TUESDAY: Physics Lab

NO IS Tuesday

Exam Review - Problem

1. Textbook: Page 646, #11-14

Textbook: Page 655, #20-24

Textbook: Page 678, 42-45, 47, 50

Textbook: Page 696, #4-10

#4. 4.00 V (text: 40.0 V)

#8. 75 s (text: 57 s)

Textbook: Page 708, #16-20

Textbook: Page 714, #21-26

Textbook: Page 719, #27-31

Textbook: Page 724, #32-35

Textbook: Page 728, #36-37

Page 749, #33-34

Textbook: Page 737, #40-42

Page 744, #46-50

Evam	Review	Drobl	0 m
Exam	Review	- Probi	em

Concept:	

Car A (2.45 x 10³ kg) is traveling due south and car B (1.68 x 10³ kg) is traveling due west. They reach the same intersection at the same time and collide. The cars lock together and move off at 57.9 km/h 53.1° S of W. What was the velocity of each car before they collided?

Physics 122/121 - Final Exam

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Unit 1
-> force problems
      - push/pull
      - suspended objects
      - incline plane
-> static torque
      - horizontal (L1)
      - involving an angle (L2)
-> relative velocity
-> collisions
      - 1 D
         - simple
          - elastic/inelastic
      - 2D
Unit 2
-> circular motion
      - horizontal circular motion (L2)
      - vertical circular motion (L1)
-> Law of Universal Gravitation and planetary motion
-> projectiles
       - horizontal
       - fired at an angle
            - no trig (L2)
            - trig (L1)
-> SHM
      - pendulum
      - mass on a spring
Unit 3
-> electrostatics
      - electrical charges
      - transfer of charge between identical objects
      - electric force - Coulomb's Law
                           - 2 charges
                           - 3 charges
                                 - in a line
                                - involves angle(s)
      - 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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multiple choice = 30 problems = 11



Practice-Exam

	V(V)	I(A)	R(n)
2 3 1	8-10 6.90 6.90 15 V	2.76 1.73 0.970 2.70	3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4