Monday, October 15/12 Physics 122/121

Bell Work

1. Boat Simulation:

http://www.physicsclassroom.com/shwave/rboat.cfm Pass In: #4-9 (3Ds Late)

- 2. Page 110 #21, 22, 25, 27(a) Page 117 - #23, 24, 29 #25 (Level 1)
- 3. Activity: Go With the Flow- Page 111 -> Complete calculations
- 4. Handouts (3)

 Stopped Here P1
 Stopped Here P6
- 5. Test Torque and Relative Velocity Thursday
- 6. Review: Momentum and Impulse
- 7. Conservation of Momentum
- 8. Types of Collisions/Explosions
- 9. 1D Collisions/Explosions
- 10. 2D Collisions/Explosion
- 11. Lab
- 12. Elastic and Inelastic Collisions (1D)



Bell Work

A catamaran whose speed in still water is 5.0 m/s heads west across an estuary. The current is 2.5 m/s south.

- a) What is the velocity of the catamaran relative to the shore?
- b) If the estuary is 2395 m wide, how long does it take the catamaran to cross the estuary?

A barge that can travel 2.5 m/s on still water is on a river flowing east at 2.0 m/s. What is the velocity of this barge relative to the shore when the barge is heading 30.0 degrees west of north?





Torque Problems

Handout - Torque

Textbook - Page 501 #31 Page 529 #27

Textbook - Page 501 #33 (a) Page 529 #28 (a)

Handout - More Torque Problems (3)

Relative Velocity

Page 110 - #21, 22, 25, 27(a)
Page 117 - #23, 24, 29
#25 (Level 1) \$\frac{1}{2}\frac{1}{

Handouts (3)

(.117. #23. 27 1.3 m/s [N] v b) 37 m15 [5] ~

A24. 21°NJE /

b) 1.7 m/s V c) 2.8x1035~ 47 min ~

LIX 13. 4.3mb, 85°NOF 5.4° EJN

#29 2) 49° NJE 41° WIT The Green bank by 2.3min