Friday, September 21/12 Physics 122/121

Student Information Profiles Sept. 21/12

- 1. Force Problems Last Chance
- 2. Torque/Net Torque

Stopped Here P6

- 3. Static Equilibrium Revisited
- 4. Gantry Cranes Video/Worksheet
- 5. Steps for Solving Static Equilibrium Problems
- 6. Static Torque Examples

Stopped Here P1

- 7. Handout Torque
- 8. Textbook Page 501 #31 Page 529 #27
- 9. Another Example (More Complex)
- 10. Textbook Page 501 #33 (a) Page 529 #28 (a)
- 11. Handout More Torque Problems



Force Problems

Text: C5 - Page 174, PP #17
Page 208, PP #24 and 25
Page 209, PP #36

Handouts - Type II Force Problems (Simple)

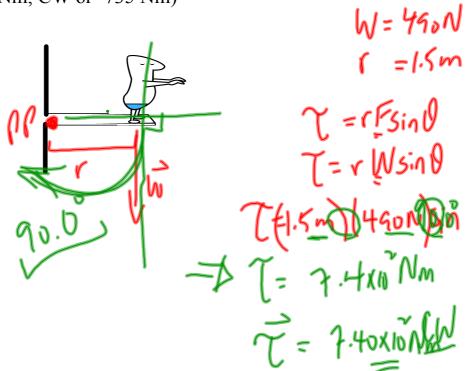
Type II Force Problems (More Complex) x 2

Text: C5 - Page 191, PP 24, 25 Page 194, PP 27, 28

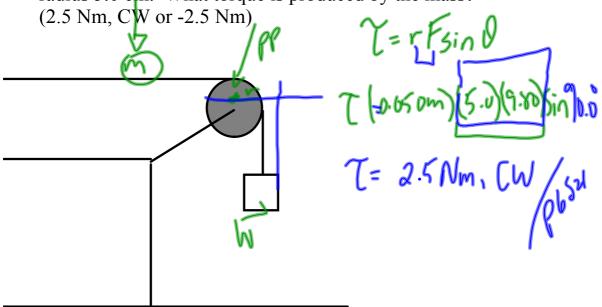
Handout - Type I, II and III

Label the Pivot Point

Example: A 490 N man stands at the end of a diving board at a distance of 1.5 m from the point at which it is attached to the tower. What is the torque the man exerts on the board? (735 Nm, CW or -735 Nm)



Example: A 5.0 kg mass is attached as shown to a pulley of radius 5.0 cm. What torque is produced by the mass?



Example: A massless board serves as a seesaw for two giant hamsters as shown below. One hamster has a mass of 30 kg and sits 2.5 m from the pivot point. At what distance from the pivot point must a 25 kg hamster place himself to balance the seesaw? (3.0 m)

