

Physics 112

Monday, January 8/18

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1. Return -> SA - U3: S2&3
 2. Exam Review - Problem #1 (10 minutes)
 3. Concept Sheet - U4-S1: Waves
 4. Types of Waves
 5. Mechanical Waves
 - Transverse + Wave Machines
 - Longitudinal
 6. Electromagnetic Waves
 7. Parts/Regions of Waves
 8. Amplitude
 9. Wavelength
-
10. Frequency and Period
 11. Wave Speed
 12. Summary - Measures of A Wave
 13. Worksheet

P112 - Exam Review - Problem #1

First Law Problem - Constant Velocity

10:05

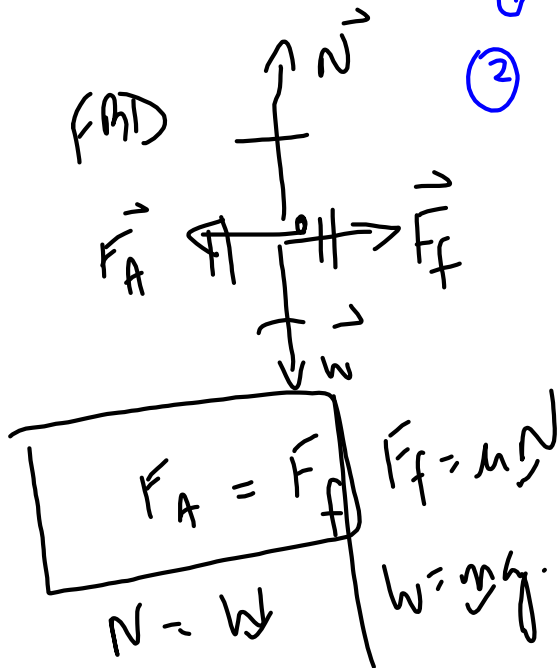
A box of mass 15.32 kg is being pulled to the left across a horizontal surface by an applied force of 58 N. The box is moving at constant speed. What is the coefficient of kinetic friction? Include an FBD for the box.

→ force problem

→ FBD → individual forces.

① 1st Law *

② 2nd Law



$$\vec{F}_A = -58 \text{ N}$$

$$F_A = 58 \text{ N}$$

$$F_A = F_f$$

$$F_A = \mu N$$

$$F_A = \mu w$$

$$F_A = \mu mg$$

$$\mu = \frac{F_A}{mg}$$

$$\mu = \frac{(58)}{(15.32)(9.80)}$$

$$\mu = 0.39$$

The coefficient of friction was 0.39.

Physics 122

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1. Worksheet - Textbook: C15, Page 708, #16-20
Worksheet - Textbook: C15, Page 714, #21-25
Worksheet - Textbook: Page 737, #40-42
Page 744, #46-50
 2. Series -> Textbook: Page 719, C15 - PP#27-31
 3. Parallel Circuits
 4. Parallel -> Textbook: Page 724, C15 - PP#32-35
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5. Combination/Complex Circuits
 6. Complex -> Textbook: Page 728, C15 PP#36-37
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Science 10

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1. **Roller Coasters - Due: Wednesday, Jan. 17/18**
 2. Resultant Displacement
 3. Calculating Average Velocity
 4. **Worksheet: Constant and Average Velocity Problems - HW**
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5. Position vs Time Graph
 6. Worksheets: Position vs. Time Graphs
 7. Velocity vs Time Graphs
 8. Worksheet - Velocity vs Time Graphs
 9. Acceleration
 10. Comparing Directions of Velocity and Acceleration
 11. Sample Problems -Acceleration
 12. Worksheet - Acceleration