

Thursday, April 11/13  
Physics 112/111

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Midterm: Date - Friday - April 12

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### **Course Selection - Period 2**

1. Midterm Format
2. Questions re Midterm?
3. Textbook: Page 485, #19-21 (C10)
4. Investigation: Atwood's Machine

# Midterm Format

⇒ 6 Problems

1. Find  $\vec{R}$  analytically. ↙  
 sketch → 2  
 $\vec{R}$  → 2 } → (4)  
 (1-8)

2. V-t Graph  
 → See ICA }

3. Kinematics → free fall

4. (4 - Force Problem


Law #1  
 rest ↙ uniform motion. ↘  
 → list variables → SD + units  
 → FBD → WS.  
 → formulas [Wing PF = mN]

5. (5 - Force Problem

$\vec{F}_{net}$  + kinematic equation(s)

6. (5 - Force Problem speed up

$\vec{F}_{net} = m\vec{a}$   
 $+ F_A - F_f = m(+a)$



Law #2  
[Wing PF = mN]

$\frac{60 \text{ min}}{60} = 1$  10 minutes

21 11.11.11