

Friday, September 19/14  
Physics 122/121

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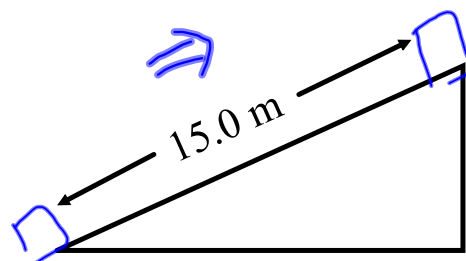
1. Check -> Text: Chapter 5 -> Page 191, #25  
Page 194, #27, 28  
Worksheets (2)
  2. Formative Assessment: Type III Force Problems
  3. Quiz: Unit 1 - Section 1 -> Force Problems Wed., Sept. 24/14
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4. Static Torque - Center of Mass  
Torque  
Net Torque

September 19/14

**Formative Assessment - Type III Force Problem**

A 15.0 m long plane is inclined at 30.0 degrees. If the coefficient of friction is 0.426, what force is required to move a 40.0 kg mass from rest at the bottom on the plane to the top of the plane with a final velocity of 8.00 m/s?



$$v_f^2 = v_i^2 + 2ad$$

(426 N, up the hill)