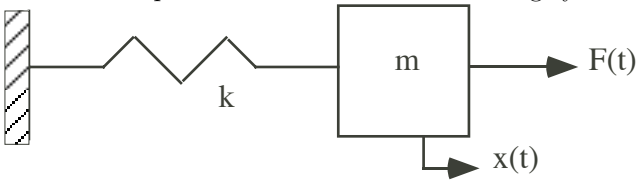


General Information on Prerequisite Course				
Course	Where Taken	Term/Year	Instructor	Grade
ME 213: Dynamics				
Student Assessment of Their Knowledge of Prerequisite Topic for Course Listed Above (Check applicable box)				
Topic	ABET Topic Letters	Can Explain of Apply Concept	Heard of Topic	Never Heard of Topic
Free Body Diagrams	a			
Test Question Assessment of Student's Prerequisite Knowledge				
<p><b>Question:</b> Derive the equation of motion of the following system:</p>  <p><b>Answer:</b></p>				
Grade: _____ out of <u>2</u> points				

General Information on Prerequisite Course				
<i>Course</i>	<i>Where Taken</i>	<i>Term/Year</i>	<i>Instructor</i>	<i>Grade</i>
ME 213: Dynamics				
Student Assessment of Their Knowledge of Prerequisite Topic for Course Listed Above (Check applicable box)				
<i>Topic</i>	<i>ABET Topic Letters</i>	<i>Can Explain of Apply Concept</i>	<i>Heard of Topic</i>	<i>Never Heard of Topic</i>
Rigid body motion	a			
Test Question Assessment of Student's Prerequisite Knowledge				
<p><b>Question:</b>  A uniform cylinder of mass <math>m = 100\text{kg}</math> and radius <math>r = 0.5\text{ m}</math> is released from rest on a sloped surface with an incline of <math>30^\circ</math>. The coefficient of friction between the cylinder and the sloped surface is 0.3. Find the cylinder's angular and linear acceleration.</p> <p><b>Answer:</b></p>				
Grade: _____ out of <u>2</u> points				

General Information on Prerequisite Course				
<i>Course</i>	<i>Where Taken</i>	<i>Term/Year</i>	<i>Instructor</i>	<i>Grade</i>
ME 213: Dynamics				
Student Assessment of Their Knowledge of Prerequisite Topic for Course Listed Above (Check applicable box)				
<i>Topic</i>	<i>ABET Topic Letters</i>	<i>Can Explain of Apply Concept</i>	<i>Heard of Topic</i>	<i>Never Heard of Topic</i>
Rigid body motion	a			
Test Question Assessment of Student's Prerequisite Knowledge				
<p><b>Question:</b>  A uniform cylinder of mass <math>m = 100\text{kg}</math> and radius <math>r = 0.5\text{ m}</math> is released from rest on a sloped surface with an incline of <math>30^\circ</math> and rolls without slipping. Write the kinetic energy and potential energy, individually (<i>not added!</i>) of the cylinder as a function of position and linear velocity.</p> <p><b>Answer:</b></p>				
Grade: _____ out of <u>2</u> points				