

## Physics 112

Wednesday, January 17/18

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1. SA - U4:S1&2

2. Review for Exam

## Physics 122

Wednesday, January 17/18

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1. Return -> SA - U3 - S2 - Electric Circuits

2. Exam Review -> #3, 4, 5 and 6

## P122 - Exam Review - Problem #3

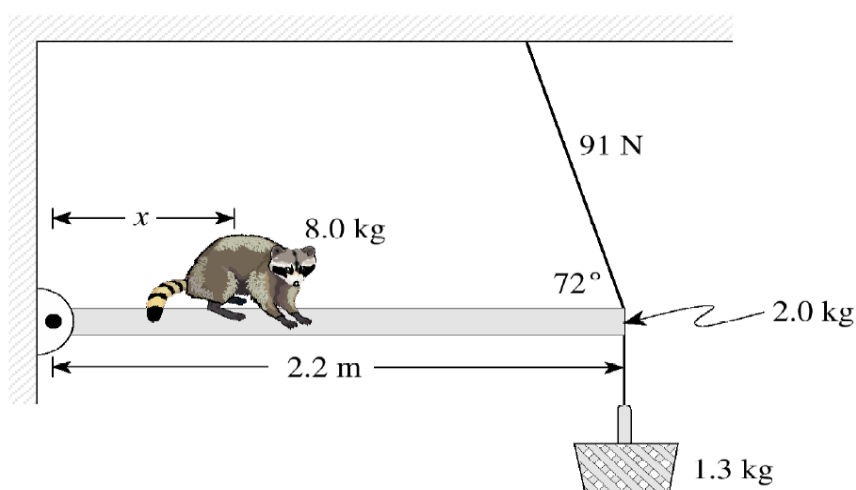
0.16

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A concrete block accelerates down a  $34^\circ$  slope at  $4.2 \text{ m/s}^2$ .  
Find the coefficient of friction between the block and slope.

## P122 - Exam Review - Problem #4 1.8 m

A hungry 8.0 kg raccoon walks out on a 2.0 kg, 2.2 m long uniform beam in an attempt to reach a 1.3 kg food basket hanging at the end. A cord that can withstand 91 N is used to support the beam at the end as shown.



What is the maximum distance,  $x$ , the raccoon can walk out onto the beam before the cord breaks?

## P122 - Exam Review - Problem #5

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A boat heading due south crosses a river with a velocity of 3.0 m/s relative to the water. The river has a uniform velocity of 1.52 m/s due west. The river is 45 m wide.

- a) Determine the boat's velocity with respect to an observer on shore.
- b) How far down river is the boat once it makes it to the other side of the river?

## P122 - Exam Review - Problem #6

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A bored kid, 30 m from a building, throws her ball at an angle of  $50^\circ$  with a speed of 20 m/s at the building. At what height above the throwing level will the ball hit the wall?

9.0 m

## Science 10

Wednesday, January 17/18

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1. SA - Physics #3
2. Roller Coasters - Due: Thursday, Jan. 18/18
3. Practice Exam \* Velocity-Time Graph

<https://buggyandbuddy.com/straw-rockets-with-free-rocket-template/>

