Friday, February 20/15
Science 122

http://mvhs-sherrard.weebly.com/

1. Check -> Worksheet - Magnetic Force on a Single Charged Particle
2. Worksheet - Magnetic Fields and Circular Paths - HW
3. Devices Using Electromagnetism
4. Worksheet - Circular Trajectories and Applications - HW

Friday, February 20/15
Physics 122/121

http://mvhs-sherrard.weebly.com/

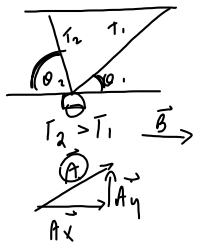
1. Return: Quiz - Force Problems: Types I, II and III
   Rewrite - Wednesday Next Week
2. Unit 1 - Section 2
3. Center of Mass
4. Torque - To Be Continued
5. Net Torque

MC.

A 1.

D 2.

C 3. $N = W_y$



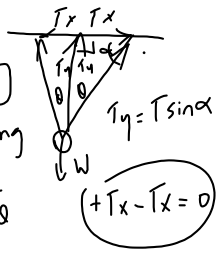
A 4. $N - W + F_y = 0$

B. 5

$2T_y - W = 0$

$2T\cos\theta = mg$

$T = \frac{mg}{2\cos\theta}$



$2T_y - W = 0$

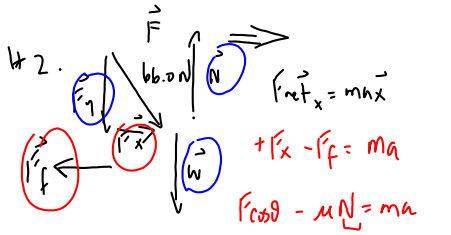
2

Part 3.

1. $\mu = 0.096$
2. $m = 9.09\,kg$

3. $A = 52.0\,N$
   $B = 37.5\,N$

magnitudes



$F_{net_x} = ma_x$

$+F_x - F_f = ma$

$F\cos\theta - \mu N = ma$

$N = W$

$N = W_y$

$N - W - F_y = 0$

$N = W + F_y$

$F\cos\theta - \mu(W + F_y) = ma$

$F\cos\theta - \mu(mg + F\sin\theta) = ma$

$F\cos\theta - \mu mg - F\sin\theta = ma$

Friday, February 20/15
Science 10

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1. Assignment - Oh, What a Tangled Web...
   - 5 Days Late Today

2. Return Marked Work

3. Assignment – Biodiversity and Culture

4. Carbon Cycle - To Be Continued - P4 and P6

5. Read pages 62-64
   Complete: Page 65 - Understanding Concepts, #1, 2, 3, 4, 5
   - Making Connections, #6 } HW

6. Nitrogen Cycle - To Be Continued (P4)

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7. Read pages 66-67.
   Complete: Page 69 - Understanding Concepts, #1, 2, 3, 4, 6

8. Oxygen Cycle