Science 10

Wednesday, April 5/17

http://mvhs.nbed.nb.ca/

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

1. Chemistry Test -> Some Still to Write
2. Roller Coaster Day - Officially Day #1

Science 10

Worksheet – Counting Significant Digits and Rounding - KEY

1. State the number of significant digits in each measurement.

1) **2804 m** 4
2) **2.84 km** 3
3) **5.029 m** 4
4) **0.003068 m** 4
5) **4.6×10^5 m** 2
6) **4.06×10^{-5} m** 3
7) **750 m** 3
8) **75 m** 2
9) **75,000 m** 5
10) **75.00 m** 4
11) **75,000.0 m** 6
12) **10 cm** 2

2. Round the following numbers as indicated:

To four figures:

3.682417	**21.860051**	**375.6523**	**112.511**	**45.4673**
3.682	21.86	375.7	112.5	45.47

To one decimal place:

1.3511	**2.473**	**5.687524**	**7.555**	**8.235**
1.4	2.5	5.7	7.6	8.2

To two decimal places:

22.494	**79.2588**	**0.03062**	**3.4125**	**41.86632**
22.49	79.26	0.03	3.41	41.87

Physics 112

Wednesday, April 5/17

http://mvhs.nbed.nb.ca/

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

Midterm - Friday, April 7/17

1. Check:
   Worksheets -> C4 - P151: PFU #26-28, 30-32, 34
   -> C4 - Introducing Forces - Extra Practice

2. Second Law Problems - To Be Continued

3. Worksheet - Second Law Problems

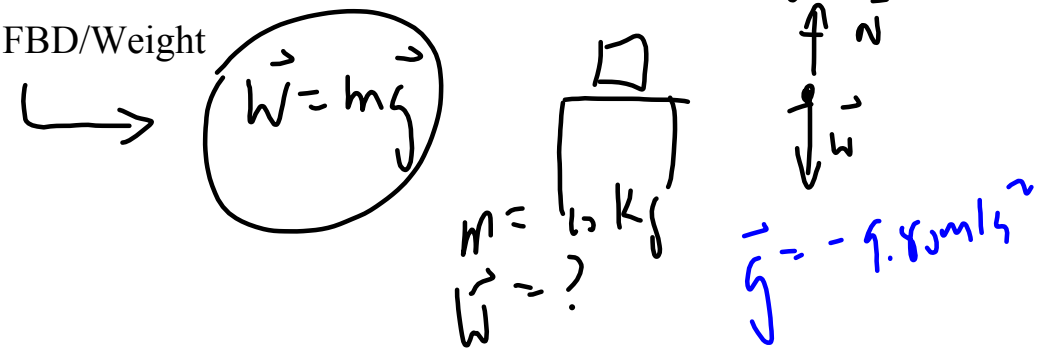
Physics 112
Mitdterm Topics

1 - determine $\vec{R}$ mathematically (follow rubric) (10)

1- velocity-time graph - like formative + summative

3 - kinematic problems (one freely falling body)

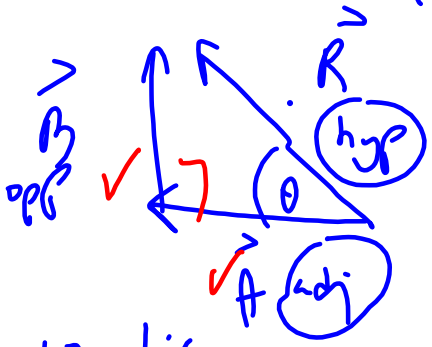
1 - FBD/Weight



Calculate $\vec{R}$ if $\vec{A} = 52.3 m/s^2$, W and $\vec{B} = 41.9 m/s^2$, N.

N
W + E
S

$\cos\theta = \frac{A}{R}$



Calc. #1 → magnitude

$R^2 = A^2 + B^2$

$R = \sqrt{A^2 + B^2}$

$R = \sqrt{(52.3)^2 + (41.9)^2}$

$R = 67.0 m/s^2$ 3 sf.

Calc. #2 dir.

$\tan\theta = \frac{B}{A}$

$\tan\theta = \frac{41.9}{52.3}$

$\theta = 38.7°$

$\vec{R} = 67.0 m/s^2, 38.7°$ N of W

Physics 122

Wednesday, April 5/17

http://mvhs.nbed.nb.ca/

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

Midterm - Friday, April 7/17

1. SA - U1S3&3 -> Today
2. Worksheets - 2D Collisions and Explosions

1. Push/Pull
2. Susp. obj
3. Incline → + Kinematic Part
4. Static Tug
5. Rel. Vel. — Boat/Plane
6. 1D collision (+Type)