

AP PHYSICS REVIEW SHEET

By some dumbass not qualified to write about physics

Notes from class notes, Flipping Physics, Khan Academy, and Michael Richmond's Lectures (HIGHLY RECOMMENDED)

This doc should cover everything needed for Physics 1 and both Physics Cs.

*I wrote this in the span of like 1 day so I might be missing stuff. Also I got kinda tired around SHM and linear momentum, and got a bit lazy with my work

Physics C Mech
Monday 5/11 11am Central

Physics C E+M
Monday 5/11 1pm Central

Physics 1
Thursday 5/14 3pm Central

AP Physics is a high school equivalent of introductory level college physics.

Document Notes

Physics 1 does not have Electric Charge, Electric Force, DC Circuits, or Mechanical Waves and Sound

Physics C Mech does not have Oscillations or Gravitation

Physics C E+M does not have Magnetism

There's also apparently a lot less math this year

If you do want to use this on the AP Exam (don't know why you would), either print it out or save your own copy of it. Don't access the google doc during the exam! CB doesn't want people doing that

Doc is based off of my gov doc

Basics

Physics is the study of the motion of the universe and seeks to understand how the universe works.

- MATH NEEDED TO UNDERSTAND THIS DOCUMENT

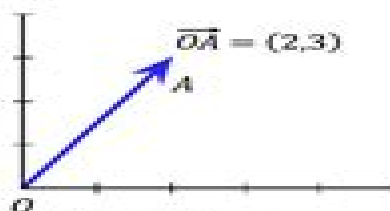
- Arithmetic (add, subtract, multiply, divide)
- Exponents and powers
- SI Notation
- Algebra
- Trig
 - Includes **small angle approximation** – which states that for small angles (less than 11 degrees)

$$\sin \theta \approx \tan \theta \approx \theta$$

- Calculus (for Physics C, mostly just basic derivatives and integrals)

• VECTORS

- **Scalar Quantity** – Has a magnitude (size) only
 - 14 students
 - 10 degrees
 - 10 m tall
- **Vector Quantity** – Has a magnitude and direction
 - 10 mph North
 - 15 mph south
- Vectors can be represented on a graph

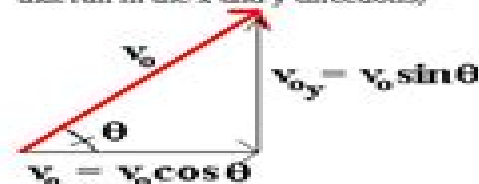


- The length of the vector represents it's size
- The direction of the arrow represents the vector direction
- The above vector can be described as:
 - Words: "Three units +x, Two units +y"
 - Parentheses: (3, 2)
 - Components: $A(x) = 3$, $A(y) = 2$
 - Unit Vectors: $3\hat{i}$, $2\hat{j}$
- Vectors can be added graphically, by putting them head to tail



- Vectors can also be broken up into components (the parts of the vector

that run in the x and y directions)



- Components are written as
 - $\vec{A} = (A_x, A_y)$
- A_x is the vector's x component
- A_y is the vector's y component
- Vectors can be easily added by adding components separately
 - $\vec{A} + \vec{B} = (A_x + B_x, A_y + B_y)$
- Vector Trig
 - $A_x = A \cos \theta$
 - $A_y = A \sin \theta$
 - $A = \sqrt{A_x^2 + A_y^2}$

• SI UNITS

- Kilogram (kg): Mass
- Meter (m): Length
- Second (s): Time
- Angles are either measured in **Degrees or Radians**
- Metric Prefixes – May appear before units and affect their scale
 - Giga = 10^9
 - Mega = 10^6
 - Kilo = 10^3
 - Milli = 10^{-3}
 - Micro = 10^{-6}
 - Nano = 10^{-9}

Kinematics

- **Kinematics** – The description of motion
- **Displacement and Velocity**
 - **Displacement (x)** – The distance between the start and ending position. Vector (ex. Path is 10 miles North)
 - **Distance** – The length of the path traveled. Scalar (ex. Path is 15 miles long)



- **Velocity (v)** – The rate of change of displacement
 - **Average Velocity** – The mean value of velocity over some period of time

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Ian Pickup



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