

Grade 11 Physics Study Guide SPH3U1

Unit 1: Kinematics + Intro

How to count significant figures:

- Embedded 0's count (i.e. 101 has 3 sig figs)
- Any numbers that aren't zeros count (i.e. 5263 has 4 sig figs)
- 0's after the decimal place count (i.e. 1.00 has 3 sig figs)
- Trailing 0's (i.e. 2000 has 4 sig figs)
- Numbers after the first non-zero (i.e. 0.0002102 has 4 sig figs)

How to add and subtract numbers with proper sig figs:

The result will have the least amount of numbers after the decimal place.

(i.e. $1.23 + 1.3 + 10.004 = 12.5$)

How to multiply and divide numbers with proper sig figs:

The result will have the least number of sig figs

(i.e. $3.0 \times 12.60 = 38$)

Big 5

$$v_2 = v_1 + a \Delta t$$

$$\Delta d = 0.5 (v_2 + v_1) \Delta t$$

$$\Delta d = v_1 \Delta t + \frac{1}{2} a \Delta t^2$$

$$\Delta d = v_2 \Delta t - \frac{1}{2} a \Delta t^2$$

$$v_2^2 = v_1^2 + 2 a \Delta d$$

Δd = Area under a velocity-time graph

a = Slope of a velocity-time graph

v = slope of a distance-time graph

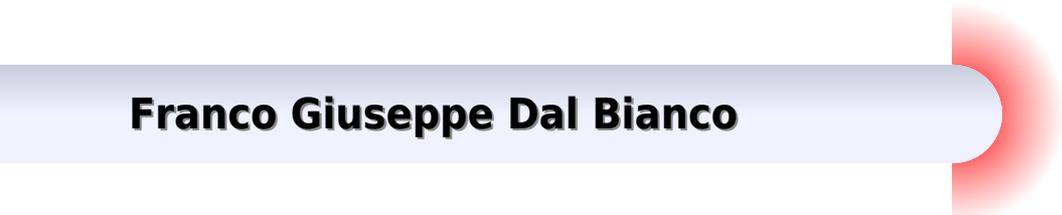
Vector Addition (tip to tail)

Vector = both magnitude and direction Scalar = only magnitude, no direction

Ex. Time = scalar, displacement = vector

Grade 11 Physics Study Guide Sparknotes

Franco Giuseppe Dal Bianco



Grade 11 Physics Study Guide Sparknotes:

Grade 11 Physics Study Guide Sparknotes Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Grade 11 Physics Study Guide Sparknotes**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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