

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

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

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

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

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

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

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

Lei Shi



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