

## 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*

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

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

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

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

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

$\Delta d$  = 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

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**RJ Alexander**



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