

Constant speed.

Position vs. time

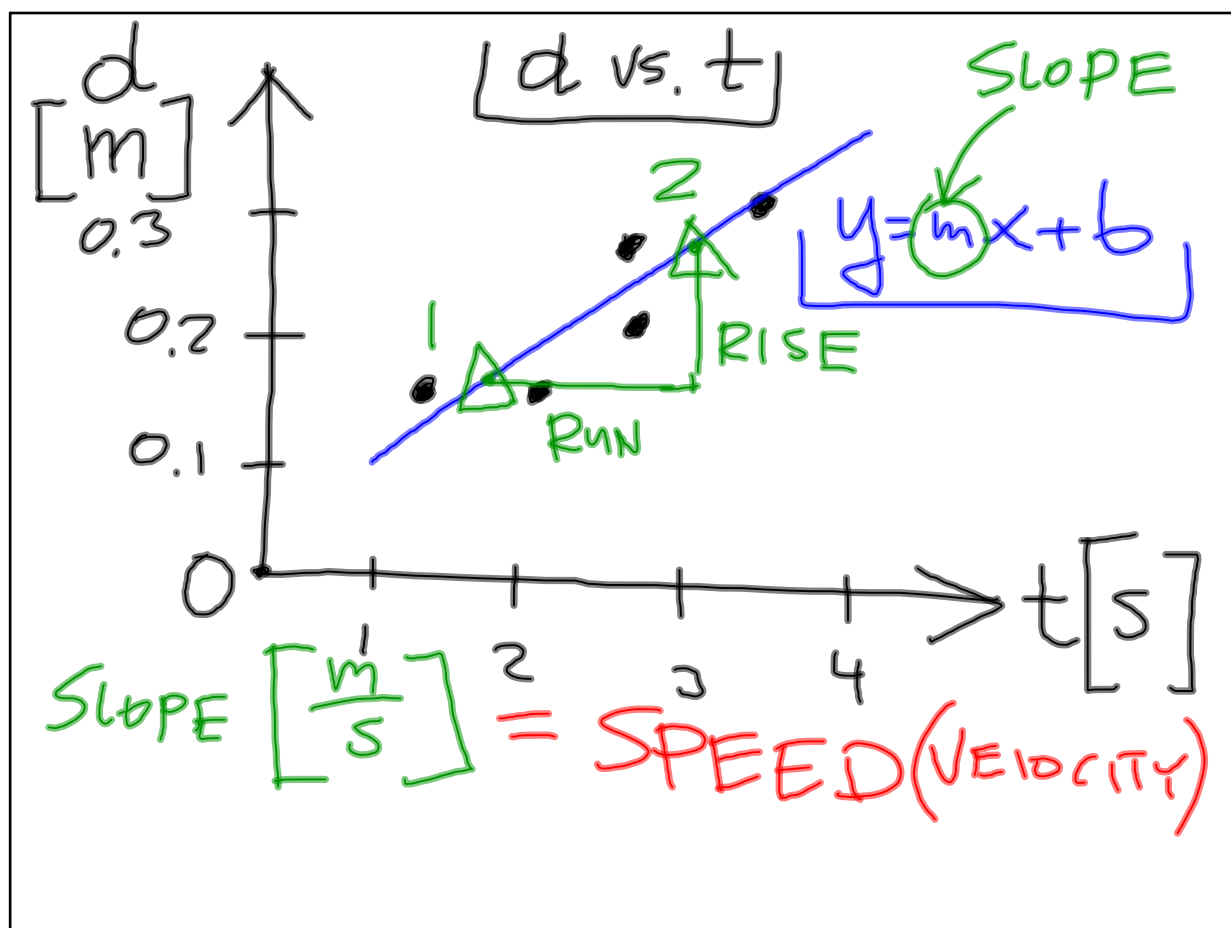
INDEPENDENT VAR.

HORIZ AXIS (x)

DEPENDANT VAR.

VERT. AXIS (y)

Sep 11-7:48 AM



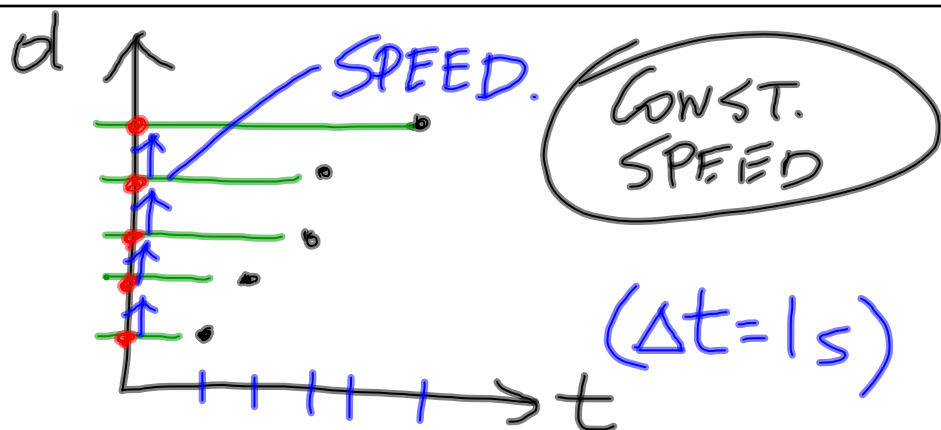
Sep 11-8:01 AM

$$\text{SLOPE} = \frac{\text{RISE}}{\text{RUN}}$$

$$S = \frac{y_2 - y_1}{x_2 - x_1}$$

Slope of the d vs. t graph represents speed (velocity).

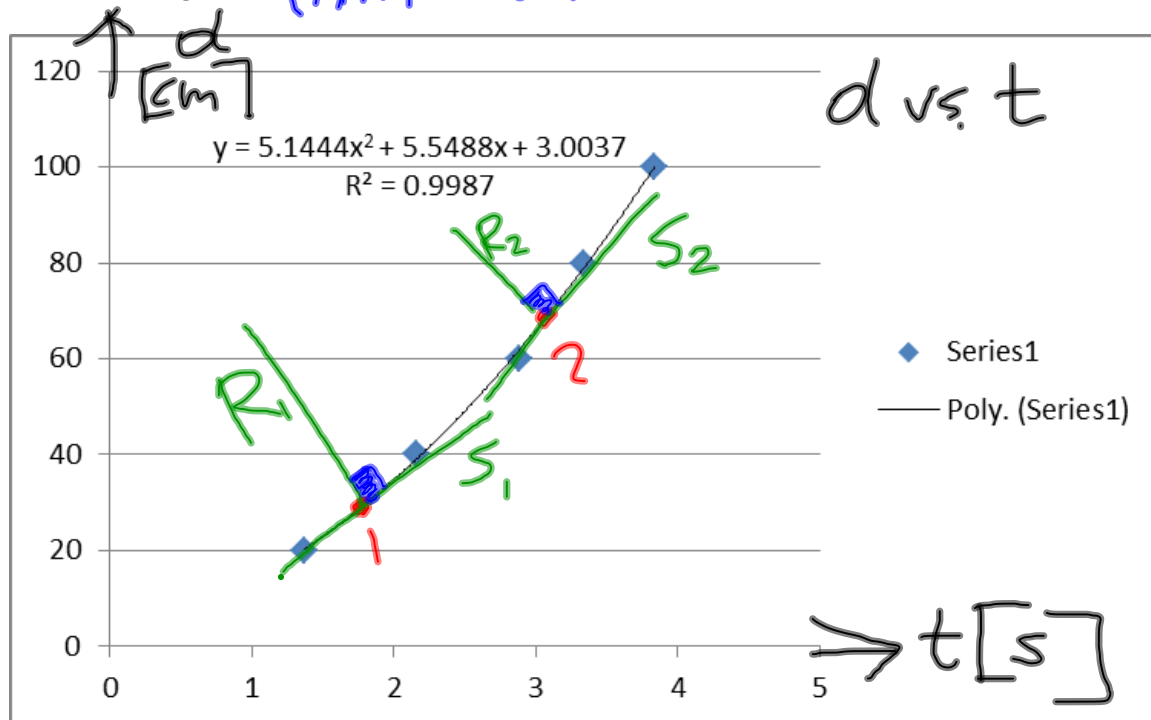
Sep 11-8:12 AM



- = ACTUAL LOCATION OF THE GLIDER
 - = DOT DIAGRAM (MOTION DIAGRAM)
- POSITION AT EQUAL TIME INTERVALS.

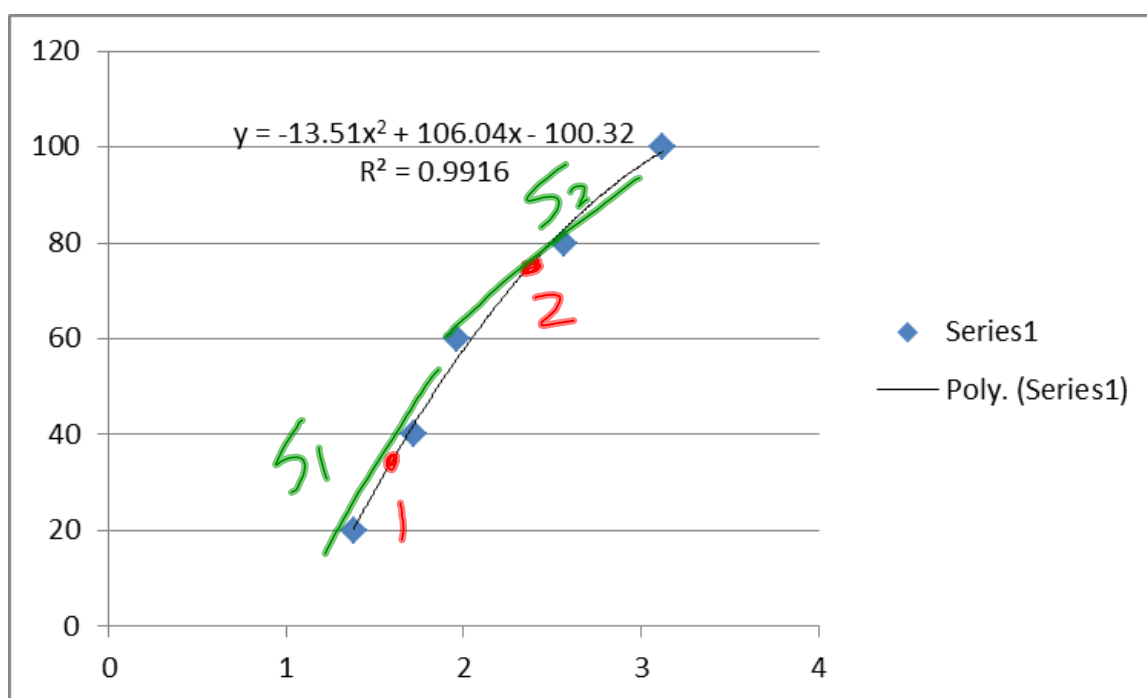
Sep 11-8:18 AM

Speeding up (PARABOLA)



Sep 11-8:30 AM

Slowing down. (PARABOLA)



Sep 11-8:31 AM

HW

Figure out how to calculate speed using your data points from d vs. t table.

$$S = \frac{d}{t}$$

Sep 11-8:50 AM