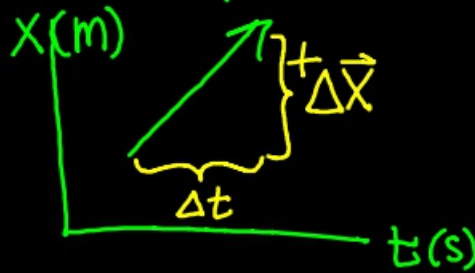
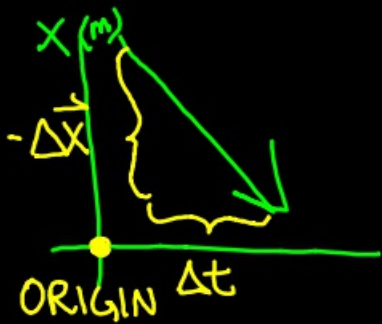


NOTES

Summary of Position Graphs NO Acceleration

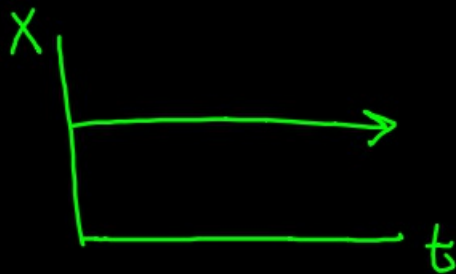


- Positive Slope
- Velocity is Constant and positive



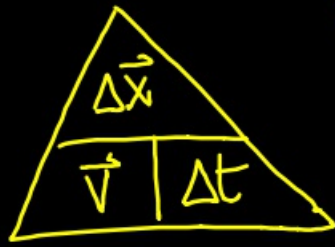
- Moving away from origin
- Negative slope
- Negative Constant Velocity

- Moving towards the origin



NO MOTION

Formula: average velocity = $\frac{\text{displacement}}{\text{time}}$

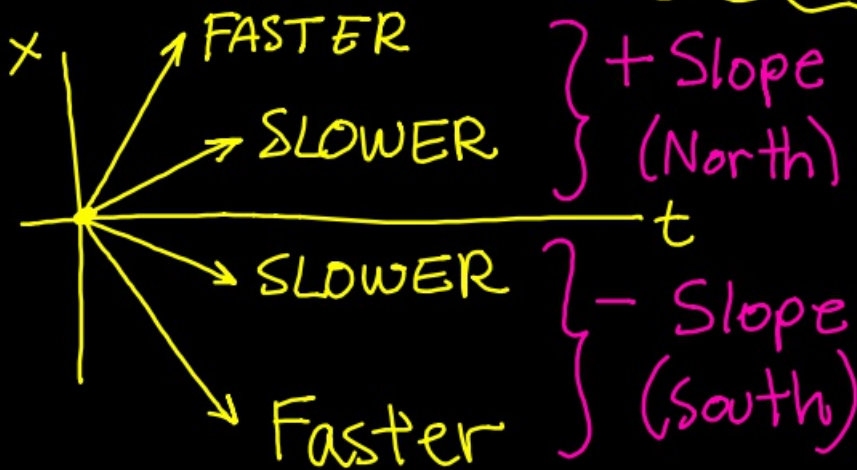
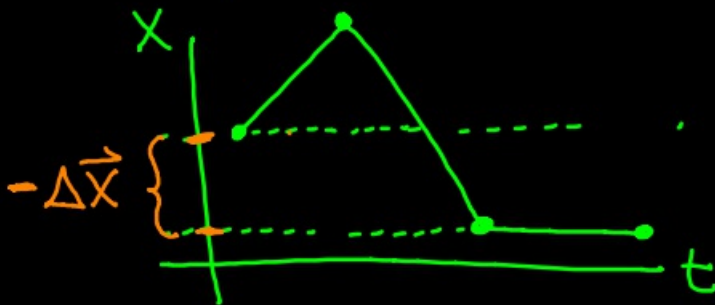


$$\vec{v} = \frac{\Delta \vec{x}}{\Delta t}$$

$$\text{slope} = \frac{\text{rise}}{\text{run}}$$

Find displacement:

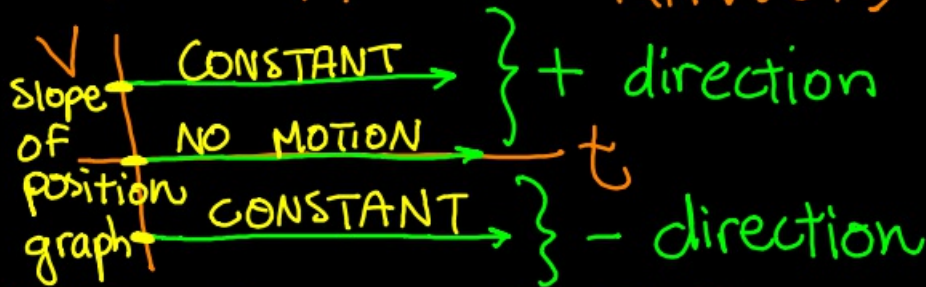
Vertical height between 2 points (+ or -)



"Average" vs. "Average of"

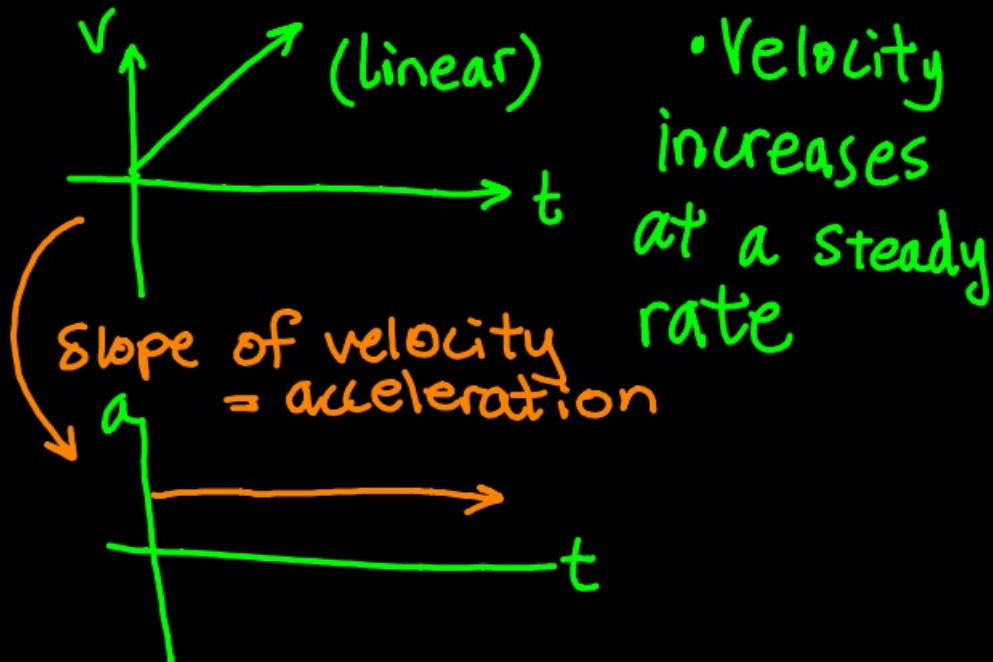
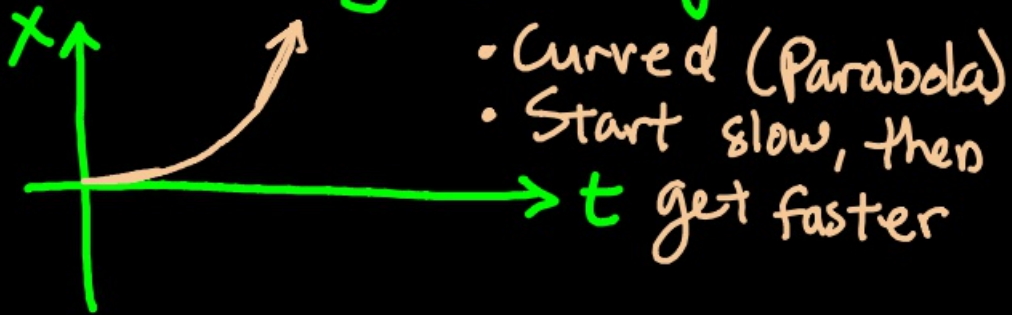
$\underline{\vec{v}} = \frac{\Delta \vec{x}}{\Delta t}$	$\frac{\vec{v}_1 + \vec{v}_2 + \dots + \vec{v}_n}{n}$
$S = \frac{d}{\Delta t}$	$\frac{S_1 + S_2 + \dots + S_n}{n}$

VELOCITY GRAPHS (NO ACCELERATION)



Find Areas and add or subtract

NEW IDEA: What if velocity changes?



* For the scenarios Worksheet, the negative direction is towards the sensor and the positive direction is away.

