

Graphs Video Notes

We can see that there are _____ dimensions.

You're moving at...

_____	because of the Earth spinning.
_____	because the Earth is moving around the sun.
_____	because the solar system is drifting towards other ones.
_____	because the solar system is orbiting around the center of the galaxy.
_____	because the Milky Way is moving towards other galaxies.

Why do YOU think you can't tell?

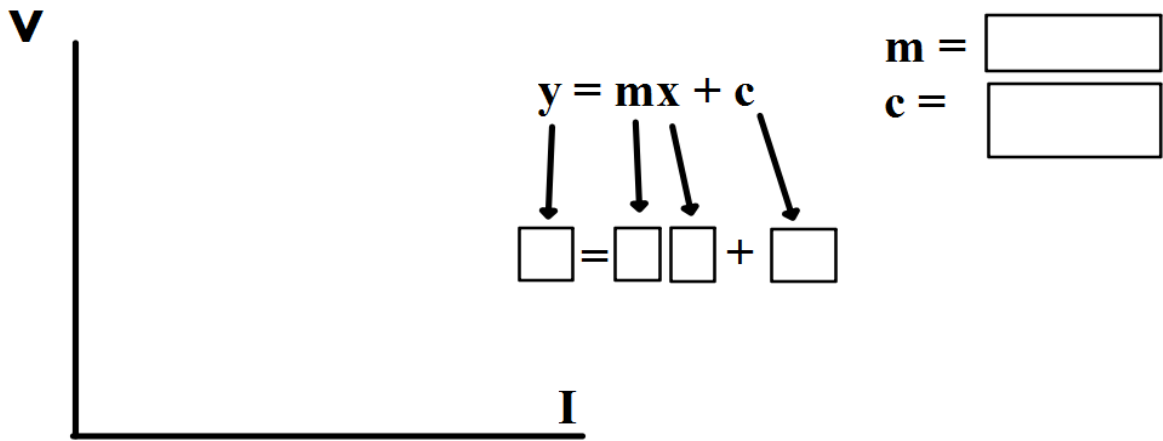
WHY are graphs important?

Equations of Straight Lines:

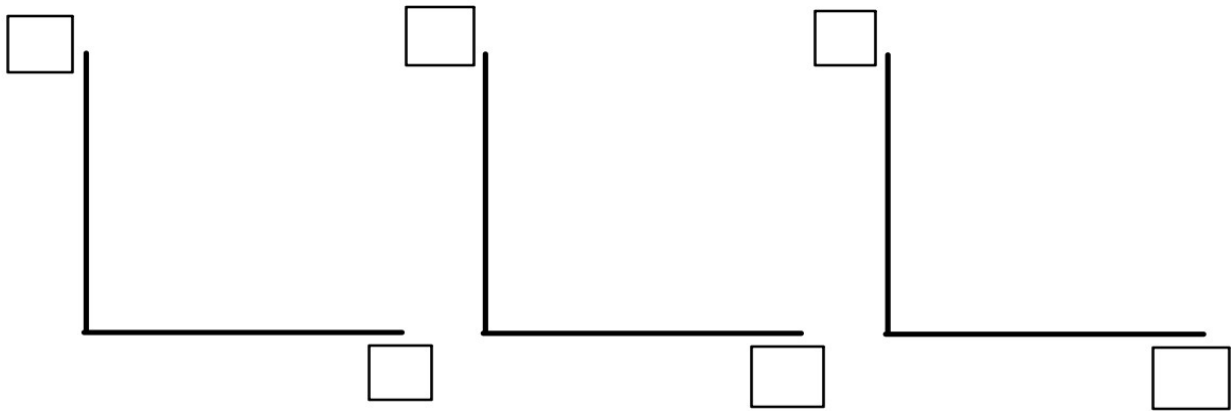
Equations of Curves:

More Complex Equations:

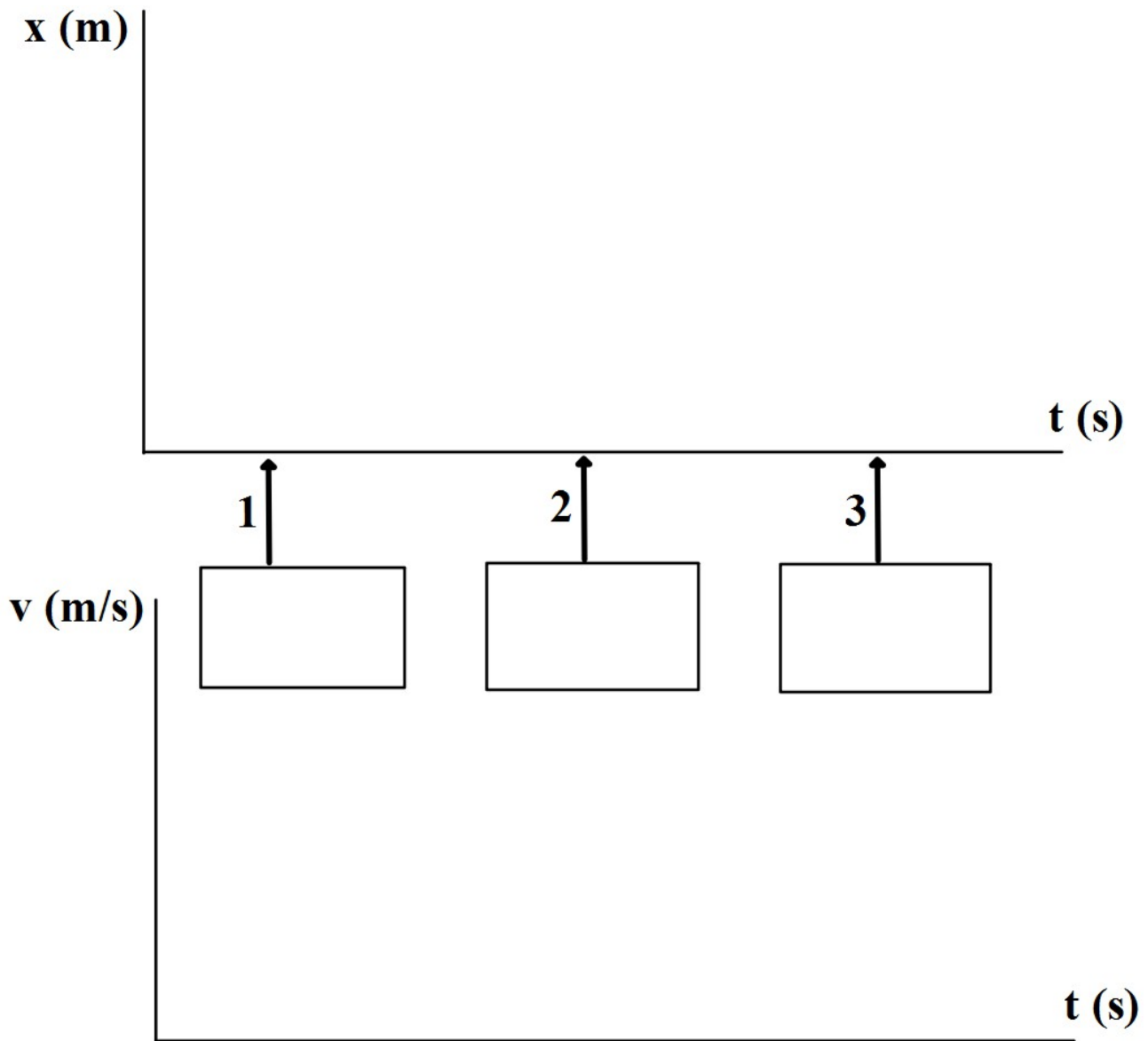
Ohm's Data



The Three Things We Graph



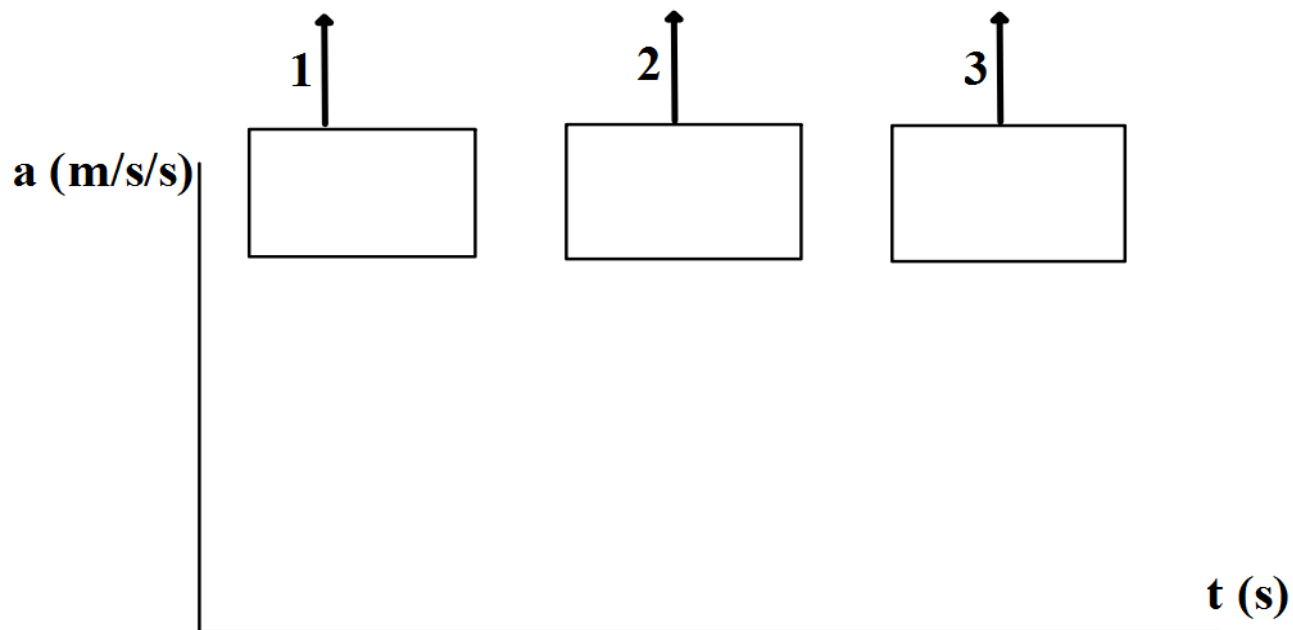
Car Speeding Up From Stop Light



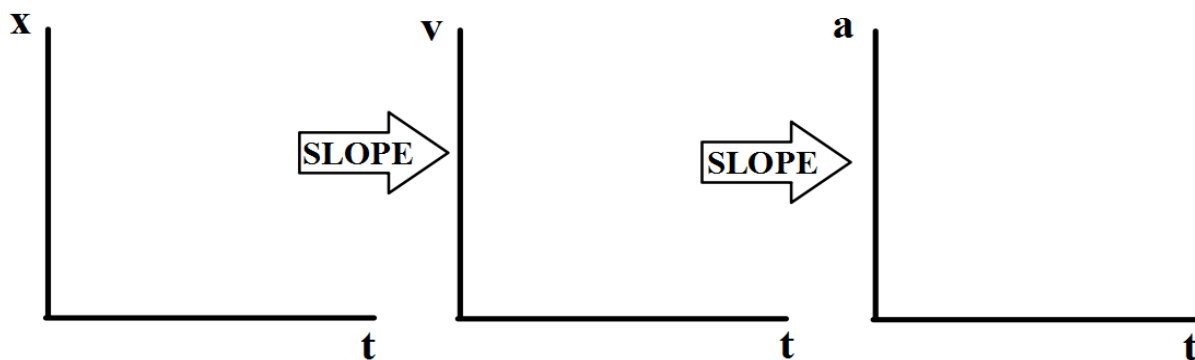
Acceleration is _____.

Why can't we tell that we are moving at 1.3 million miles per hour?

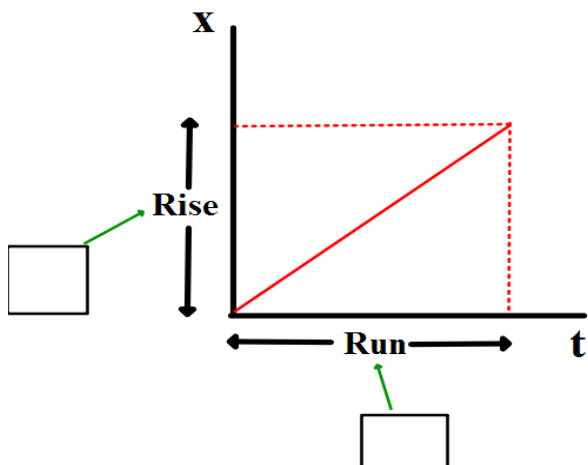
From velocity graph.



The Slope Method



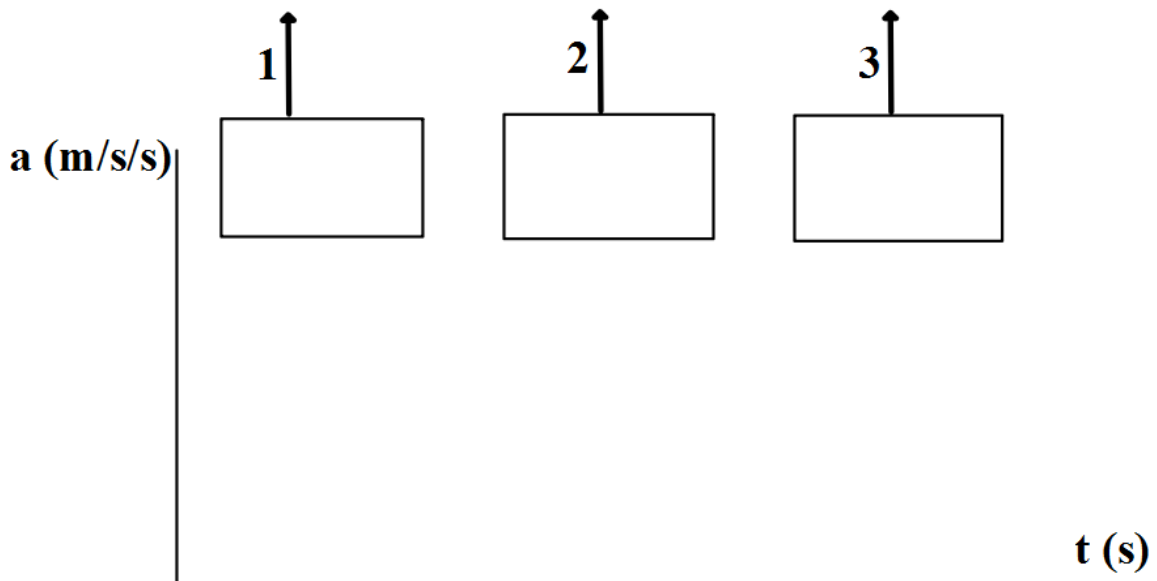
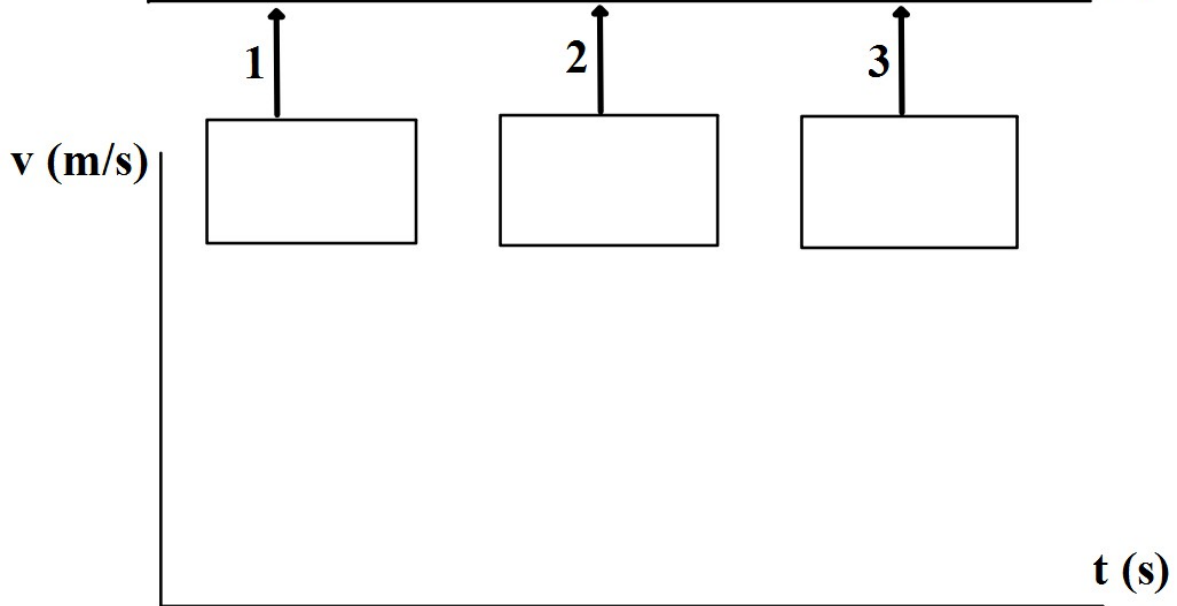
Example:



$$\text{Slope} = \frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

$$\text{Velocity, } v = \frac{\boxed{}}{\boxed{}}$$

Using the Slope Method

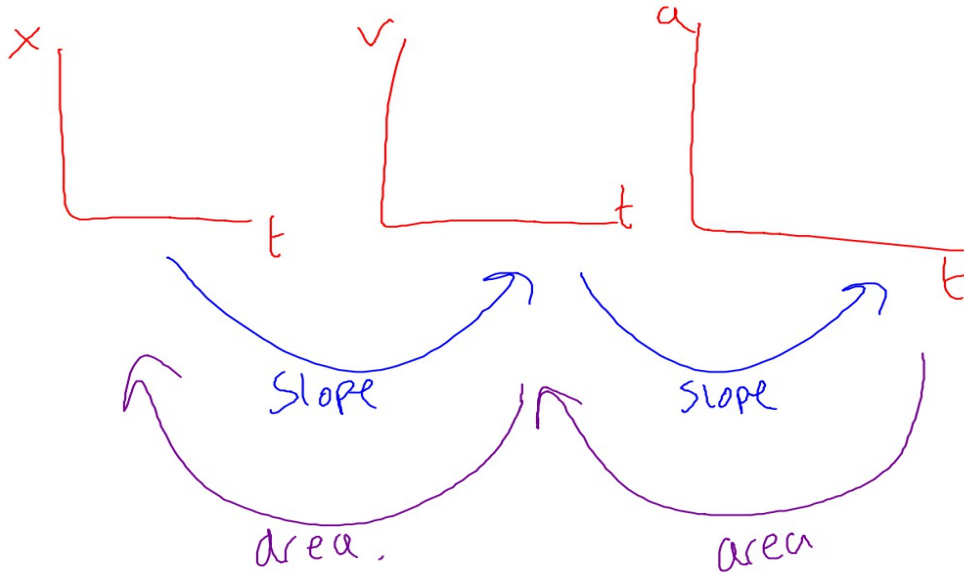


Calculations From Previous Page

$$v = \frac{\text{rise}}{\text{run}} = \frac{x}{t} = \frac{\square}{\square} = \square$$

$$a = \frac{\text{rise}}{\text{run}} = \frac{\Delta v}{t} = \frac{\square}{\square} = \square$$

Going Backwards



- 1)
- 2)
- 3)



Going Back to Displacement...

