

Equations Video Notes

Equations We Know So Far

$$s = \frac{d}{t} \longrightarrow v = \frac{x}{t}$$

Example:

$$v = \frac{x}{t} \quad \begin{array}{l} x = \square \\ t = \square \end{array}$$
$$v = \frac{\square}{\square} = \square$$

$\square = 10 \text{ m}$

t=1 t=2 t=3 t=4 t=5

Acceleration Equation

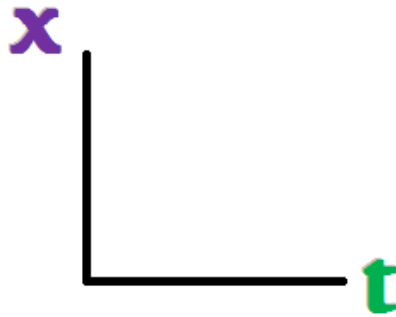
$$a = \frac{\Delta v}{t}$$

Acceleration is the rate _____.

rise

run

FOR

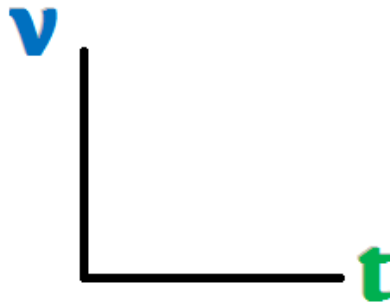


$$\frac{\square}{\square} = \square$$

rise

run

FOR



$$\frac{\square}{\square} = \square$$

Equations of Constant Acceleration

Galileo derived them first.

Sagredo objected because _____

Sagredo Quote (optional):

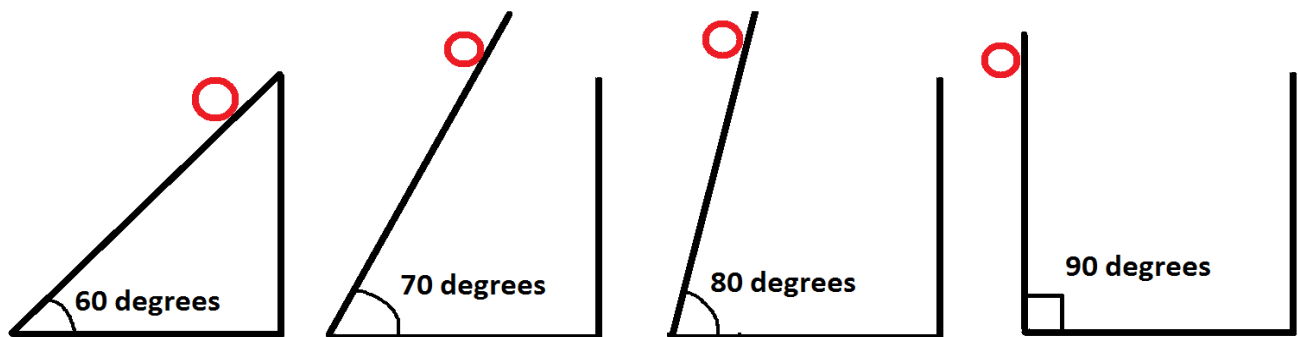
Derivation (watch the video carefully, but notes on this part are optional):



Final Five Equations

	Equation	Missing Variable	
1			a is _____
2			x is _____
3			v_i is _____
4			v_f is _____
5			t is _____

Galileo's Experiment



Explanation:
