

Classificação de Movimentos

MOVIMENTO RETILINEO UNIFORME

$V \rightarrow \text{CONST.}$
 $a \rightarrow 0$
 $F_R \rightarrow 0$

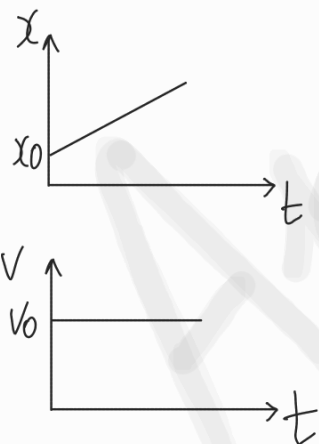
$$\Delta x = x_f - x_i$$

$$V_m = \frac{\Delta x}{\Delta t}$$

$$R_m = \frac{d}{\Delta t}$$

$$x = x_0 + V_0 t$$

$$V = V_0$$



MOVIMENTO RETILINEO UNIFORMEMENTE VARIADO

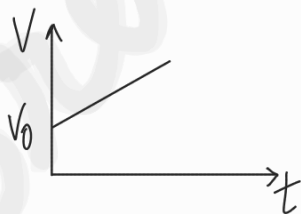
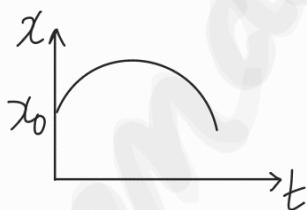
$V \rightarrow \text{VARIA}$
 $a \rightarrow \text{CONST.}$
 $F_R \rightarrow \text{CONST.}$

LEIS DO MOVIMENTOS

$$x = x_0 + V_0 t + \frac{1}{2} a t^2$$

$$V = V_0 + a t$$

• GRAVES

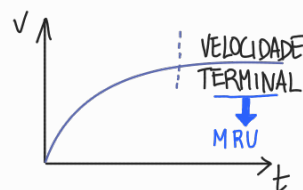


MOVIMENTO RETILINEO VARIADO

$V \rightarrow \text{VARIA}$
 $a \rightarrow \text{VARIA}$
 $F_R \rightarrow \text{VARIA}$

- QUEDAS C/ RESISTÊNCIA AR APRECIÁVEL [PARAQUEDISTA]

⚠ NÃO SE APLICAM LEIS MOVIMENTO



MOVIMENTO CIRCULAR UNIFORME

$V \rightarrow \text{CONST.}$
 $a \rightarrow \text{CONST.}$
 $F_R \rightarrow \text{CONST.}$

$$V = \frac{2\pi r}{T}$$

$$W = \frac{2\pi}{T}$$

$$V = W \cdot r$$

$$a_c = \frac{V^2}{r}$$

$$F_c = m \cdot a_c$$

- SATÉLITES
 $F_r = F_g$

2ª LEI = LEI GRAVITAÇÃO
 NEWTON UNIVERSAL