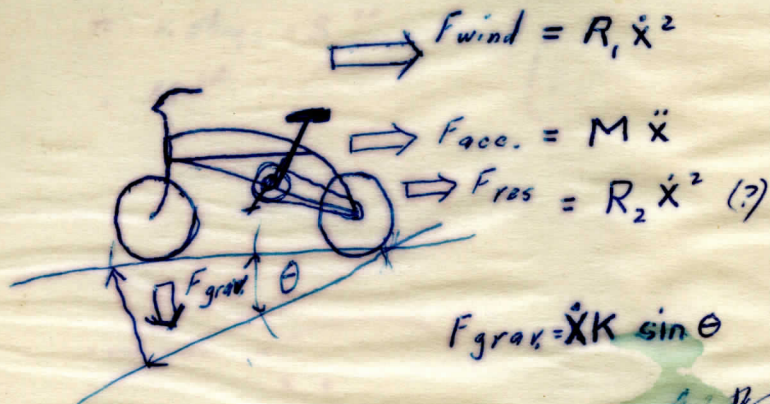
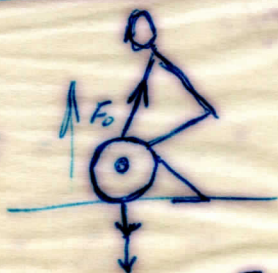




$$F_{grav} = \dot{x} K \sin \theta$$

$F_{driving}$



$$F_0 = F_g + \dot{x} m$$

$$= mg + \ddot{x} m$$

For $mg = \cancel{64} 64$

~~$\ddot{x} = 3'/sec^2$~~



assume 8' lift in ~~1~~² sec
and linear acceleration
+ deceleration. ~~Av.~~ Av. Velocity

must be $V = \frac{D}{T} = \frac{8}{2} = 4' / sec$

Peak velocity will be 8'/sec

acc is $d = \frac{1}{2} a t^2$ & $a = \frac{2d}{t^2}$



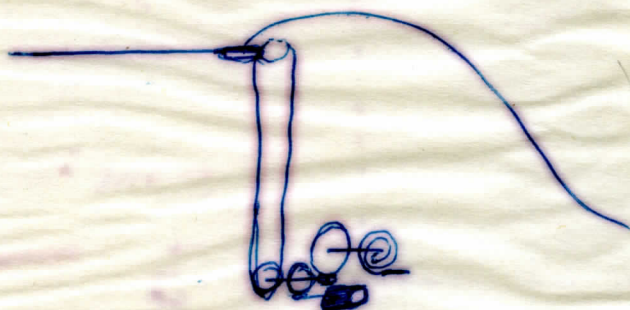
$= \frac{2 \cdot 4 \text{ ft}}{1 \text{ sec}^2} = 8' / sec^2$

$$F = ma \quad m = \frac{64 \#}{32} = 2 \text{ slugs}$$

$$= 2 \text{ slugs} \cdot 8 \text{ /sec}^2$$

$$= 16 \#$$

$$\boxed{25\%}$$



$$D = \text{Vel} \cdot \text{Time}$$

$$x = \frac{dx}{dt} T$$

$$\frac{dx}{dt} = \frac{1}{2} \frac{d^2x}{dt^2} T$$

$$F = R \dot{X} (+ M \ddot{X})$$

$$F = K_1 + M \ddot{X}$$

Torquing bolts
sliding objects

Walking + Running
Weight Lifting
Most Movements of
Limbs $\bar{z}$ load -

Object of Conditioning

Cardiovascular	Metabolic cost - over Time
	1

Work in Pressure Suit - Res-
Movement — Inert-

Confirmation of Kinesiology

2. 1st. 1st. 1st.

3. Test

1. Coordinato c SAM

2. Let Contract

3. Test
