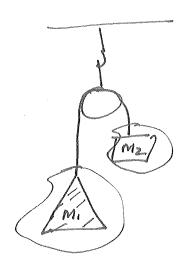
Physics 160

Extra Credit #15

5.15



Managard From Action

TREAT THE TWO Blocks SEPARATELY

Forces ONM .: TUP, Wi Down

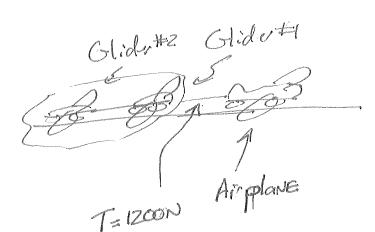
Fores on M2: TUP E SAME MAgnitude Since MASSKSS Rope

From Rost M. RISES AND M2 FAlls at SAME RATE

= Qy = Q Qzy = -Q

$$= \frac{133.280}{42.465} = 3.140 k^2$$

5.18



Mi=M2=700c,

FIDA = 2500N ON EACH
glider

a) LENGTH OF RUNWAY =? > NEED Acceleration

If we per treat the two gliders AS A single Object

Forces are: Tension From plane's ROPE. Two Friction Forces, NORMAL AND Weight

JSCON 1 TOTAL

ZSCON 1 TOTAL

ZSCON 1

I.F. = mgx => T-2500N-2500N-

MTOTAL OX

BOTH MASSES have same acc.

= T-5000N = (1400K) 9x

+ largest Acceleration with T= 12000N

· 12000N - 5000N = (1400g) 9x

= 9x = 700000 = 5m62

$$V^{2}=V^{2}+2a(x-x_{0})$$
. Let $x_{0}=0 \neq x=?$

$$V_{0}=0, V=40 \text{ m/s}$$

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