Tind on of ARB ofter
releasing.
ms I Ima = 2kg
Assuptions.
Massless pulleys: needn't
account for lifting weight
of pulleys.
- Massless rope: Allows to
assume uniform tension
(1/ <u>1/2</u>
$\frac{1}{1-1} = M_r \alpha_r$
$\frac{1}{1} m_{r=0}$
- Pulleur are trictionless: 000
t = (1/= M.a.
11-12 J+pr 12-12
TITZ = Mrar  TITZ = Mrar  TITZ = TZ If  TIME = 0.  Polleys are frictionless: 0 0  TITZ = TZ If  TITZ

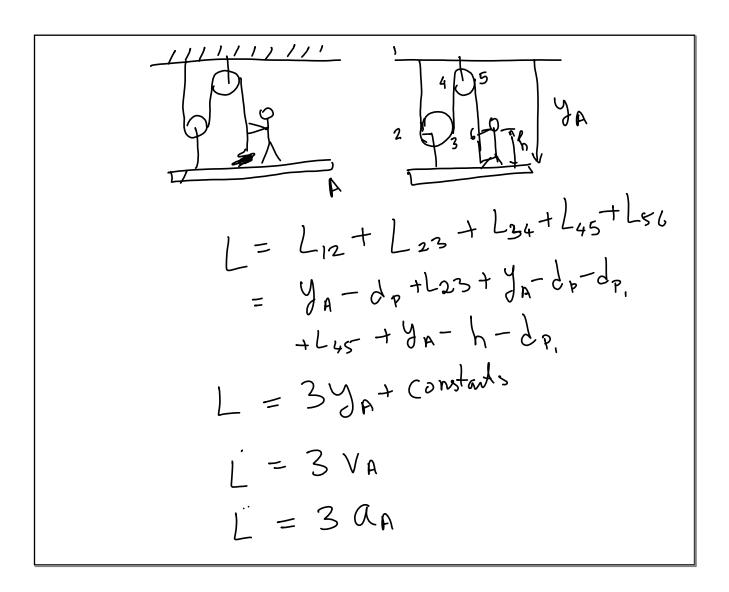
$$2a_{B} + q_{A} = 0 - 0$$

$$\sum F_{y} = ma_{y}$$

$$\sum F_{y} = ma_{y}$$

$$\sum M_{y} = ma_{y}$$

$$\sum M_{$$



Assumptions for using simplifiex polar equations of acceleration. 1) Ur is pointed from origin to particle. article.

K is along the direction of O. We is Kx Wr  $\vec{Q} = (x - x \omega^2) (\hat{q}_x + (x + 2x \omega) \hat{q}_\theta$