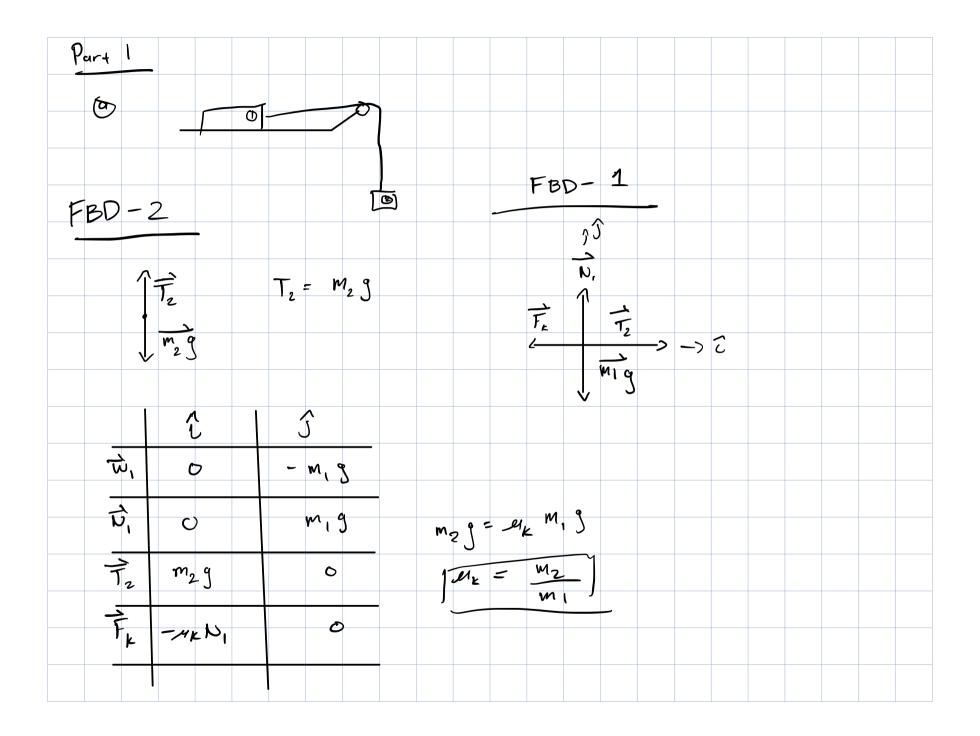
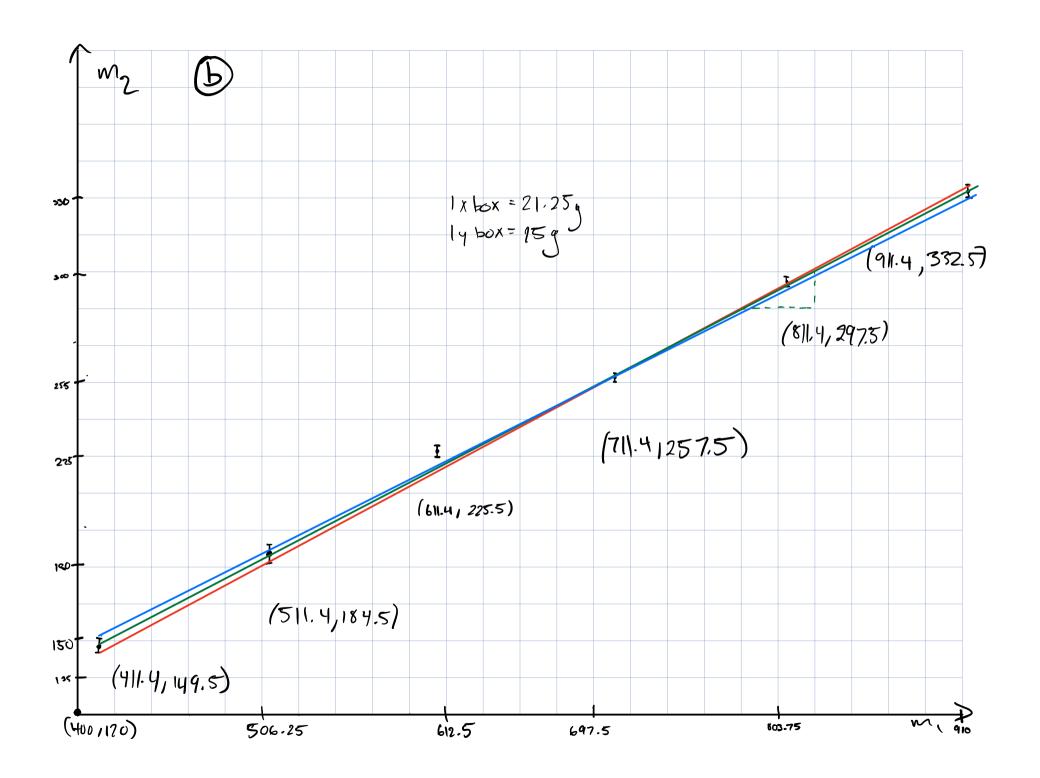
Friction	Lab							
Part 0								
Pi Dita								
m, (9)	Me nin (g)	mz max g	m _{2 best} (g)	Dmin Dmax Obest				
411.4	149	150	149.5	18.5 19 18.75				
511.4	184	185	184.5					
611.4	225	226	225,5	P3 dere a				
711.4	257	258	257.5	m ₂ min M ₂ max M ₂ best				
811.4	297	298	297.5	267 268 267.5				
911.4	332	333	332.5					





 $P_2 = (825,300)$; $P_1 = (782.5,285)$ $\mu_{\text{best}} = \frac{300 - 285}{825 - 782.5} = \frac{15}{42.5} = 0.353$ * Because blue & red P2 = (Goesn's -(Nerser) don't intersect grid @ 2 points | will be P1 = (762.5,185) P = (don't intersex again) Using the actual measurements P2=(911.4,332); P1= [411.4,150) $M_{2min} = \frac{332 - 150}{911.4 - 411.4} = \frac{162}{500} = 0.364$ P2=17825,285); P1=(4114,149) 41×10^{-1} 285 - 149 = 136 = 0.366

Dot sore what went wrong.

Mk from the data is .367 ±.02 but from my aroph, is .354 ±? Mk from the graph is 14 even within its bounds. With a longer graph paper maybe I could have used only values from the graph. 1/2= .367 ± .02 FBD Sin (40-0) - \overline{w} $wx = w \sin(9-\theta)$ \overline{w} $(\omega s (40-\theta) = \frac{\omega_4}{\omega} \qquad \sin(40-\theta) = \frac{\omega_x}{\omega}$ Wy = W (80-8)

	SUM	
		14.
\overline{n} , \overline{n}	$\sin(\theta)$ =	100
Fr 0 Mr	S.	
Fr 0 μ/2 1 W, -w sin (40.0) - w co	υ 5 θ	
N,= wsin (90-0)		
NK [WSIV (90-8]] = U	2 cos (90 - 0)	
$4x = \cos(90 - \theta) -$	coe (90-0) = [Earl	(E) = MK
Sin (90-8		
$u_k = tan(18.75) =$	220=41	
70 Z = EUGI ((8. 73)	- 33 1- 1/2 /	
\bigcirc		
6) 8 Mr = dnr 80	$M_k = tan \theta$	
d &		
duk = d kan 0 = see	$c^2\theta$	
$d\theta$ $d\theta$		
	in valians	
Dmin Dmax Obest		
18.5 19 18.75	.3229 .3316 .3272	

Sf = .3316 - .3229 = .00435 rad Z = .00435 rad $SAK = Sec^{2}(.3272)(.00435) = .00485 \text{ radious}$ 18 ML = 4.85 × 103 (C) In part 1, 1/k was .367 + .02. In part 2, 4k is .339 ± 4.85 × 10⁻³.

One reason for the difference in 10 ks is that

My measurement of the angle in part 2 is less pre ise.

As you can see I said Durin is 18.5°, this was an exchall estimate. The device only measure in 1° increments. At 18° the block wouldn't more & at 19° the block moved at Constant relocity so l'estimate the min to be 18.5.

	3		
N. O	Pι	U, = w, g sin (40	-67
$ \begin{array}{c c} N, & O \\ \hline T_2 & -M_2 q \\ \hline F_k & M_k N, \\ \hline W, & M_1 q (US(qQ-D)) \end{array} $	8		
Fr Mr. D.	0	my q = Mx Migsin	(90-B) + m, g ros (90-B)
\overline{W}_1 $M_1 q \cos(q0 - \theta)$	-m, g sin (90-8)		
		M2 = M (Mk sinl	40-8) + cos (90-8)
112=.367	m2 = 411.40	(.367 sin 190-18.7	5)+cos(90-18.75))
D = 18.75			
m,=	$M_{2c} = 273$	5.29	
M /	\ \	-17	
() - 2683	g) 100 2 · 12.6	2/d	
275.2	9) =		