Rz, a

2. 1	notions of equation	. for each segment.	
	F007	SHANK	THIGH
x +	$\Sigma F_{x} = m_{j}(\alpha_{com, p}) \hat{x}$ $Ra, \hat{x} + GRF \hat{x} = m_{j}(\alpha_{com, p}) \hat{x}$	$EFx = Ms(acoms) \hat{x}$ $Re, \hat{x} - Ra, \hat{x} = \frac{1}{Res(acoms)} \hat{x}$	$\begin{split} \mathcal{E}F_{\mathcal{R}} &= m_{t}(a_{comt})  \tilde{\chi} \\ R_{h}, \tilde{\chi} &= R_{k}, \tilde{\chi} &= \\ m_{t}(a_{compt})  \tilde{\chi} \end{split}$
-1 y 1+	EF = M (acount) 2 Ra. 2 - Fg. + + GRF 2 = M (acount) 2	EF3 = Ms (acoms) \$\frac{2}{5}\$  Re, \$\frac{2}{3}\$ - Ra, \$g\$ - Fq, \$s\$  = Ms (acoms) \$\frac{2}{5}\$	& Fg = M+ (acomt) g Rh, g - Fq, t - Rz. g = M+ (acomt) g
	EMcomf = Icomf () +  Ma - Ra, x / Ja - gcomf -  - Ra, y / xcomf - xa) /  + GRF x ( gcom - gcop)  + GRF g ( xcop - xcomf  = Icomf Ocy	7coms) - Rk, x (32 - 3coms) - Ra, x (3coms - 3a) + Ra, 3 (7coms -	EMcomt = Icomt R+  Mh - Mt - Rh, g (xcomt  - xh) - Rh;x (gh - gcomt  - Rt, x (gcomt - gt)  - Rt, g (xt - xcomt)
-('m')+	Ma = Ra, x (3x- 300mx) + Ra, z ( Kcomf - Ka)   - GRF x (30mf - 300p)	Xa)  Mt = Ma - RE, g(XE -  - XCOMS) + RE, X (ZE -  - XCOMS) + Ra, X (ZCOMS)  - Za) - Ra, Z (XCOMS)  - Xa)	Mh = Mt + Rh, g (xcomt - xh) - Rh, x (gh - zcomt. - Rt, x (zcomt - zt) - Rt, z (xt - xcomt)
	ns Soli	re for this	

## 3. Forces + moments of each segment.

	Mass (Kg)	Icom (kg·m²)	acome, ix	acom, 3	(rad; 2)	GRFX (N)	GRF3 (N)	
foot	0.86	0.0037	0.0328	0. 3992	- 2.8752	\\$.53	595. 9	
shark	2.73	0.0237	1.5369	-0.2395	-5.6788			
thigh	8.92	0.1903	1.6365	-0.9072	2.7077			

	2 (m)	9(m)		2(m)	3(m)		x(m)	3(m)
Ankle	0.189	0.727	knec	0.292	0.488	hip	0.3577	0.9183
com+	0.225	0.063	coms	0.246	0.322	come	6. 330g	0. 9385
Cor=	0.307	0						

Ra,  $\hat{\pi}$  = -18.5 N FOR DIFF. WALVES ~

Ra,  $\hat{g}$  = -587.1 N

Wa = -71.26 N·m

Cur shark i thigh FBDs

Rt,  $\hat{x}$  = -14.2 N way.

Rt,  $\hat{x}$  = -560.99 N way.

Rh,  $\hat{x}$  = 0.3976 N

Rh,  $\hat{g}$  = -479.74 N

Wh = 23.94 N·m