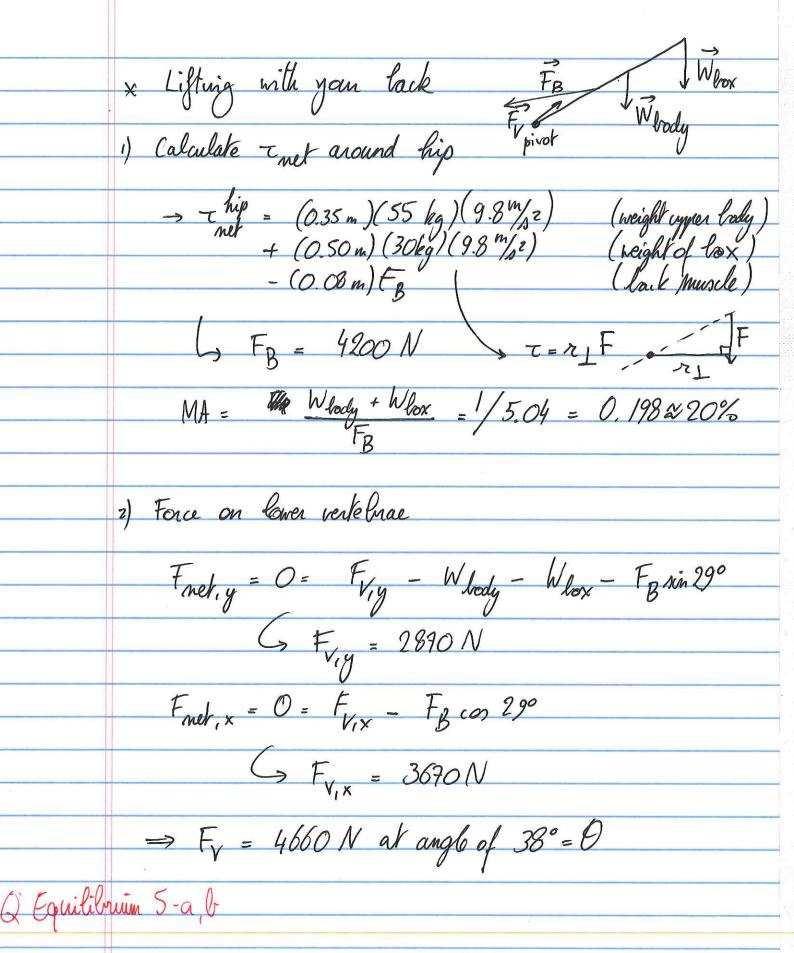
	PHYS 107 - Week 09 - Wednesday
	* Announcements: travel - grad students teaching on Friday and Monday - gynortanity 6 give them feedback
	Friday and Monday - ornarkunta
	to ask them les 10 6
	b give viem jeedlack
	Reading quiz Friday: will post today
	* Un Static equilibrium: Fret =0 and Tret =0
	solve for unknown forces, angles, etc
	Where to pick the pivol? At a point where some of the unknown forces apply -> then they will drop out in Thet =0 equation
	drop out in Trot = 0 equation
O FOU	ilibrum 2
Q 09.	* Mechanical advantage: MA = Font
	Fin
	if Fout < Fin -> MA > 1
	if Fout > Fin -> MA < 1



\* Pulleys and mechanical advantage

Tension T: always pulls, can change direction of

FBD 
$$\overrightarrow{TMT} \longrightarrow 2T - W = 2T - Mg = 0$$

$$\downarrow T = W = Mg$$

$$\overline{2} \quad 2$$

$$\downarrow MA = Fout = W = 2$$

$$\overline{T} \quad T$$

$$MA = \frac{Fout}{Fin} = \frac{\dot{W}}{T} = 9$$

FBD 
$$TMT \rightarrow 3T - W = 3T - Mg = 0$$

$$\downarrow W \qquad \qquad \downarrow T = \frac{W}{3} = \frac{Mg}{3}$$

What is the force F in the hinge? (restical comp)

