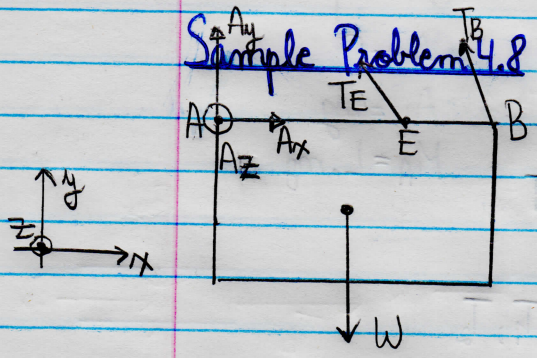
$A_x = 0$

$A_y = 2mg$

$M_A = 2Lmg$

Sample Problem 4.8



$u: A_x, A_y, A_z$
T_E, T_B

x) $A_x + T_{E,x} + T_{B,x} = 0$

y) $A_y + T_{E,y} + T_{B,y} - W = 0$

z) $A_z + T_{E,z} + T_{B,z} = 0$

$\vec{T}_E = T_E \cdot \vec{e}_E$

$\vec{e}_E = \frac{\vec{EC}}{\|\vec{EC}\|}$

$$\vec{EC} = \begin{bmatrix} 0 - 6 \\ 3 - 0 \\ 2 - 0 \end{bmatrix} = \begin{bmatrix} -6 \\ 3 \\ 2 \end{bmatrix}$$