Physics 160 Extra Credot #24

BALANCING TORQUES PANKING -> ACHAILY RANKING 700,000

IN EACH CASE The torque must be the SAME Since the Pole Does not Rotate = Net torque =0 SO TCABLE = TSIGN. SAME SIGN At SAMEPLACE IN EACH & TSIGN SAME & Trable the SAME.

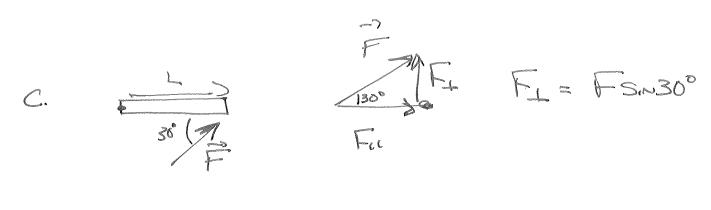
TI = TS. NGO° = TA (5/2) & To = (3/4) T(5/2)

OR USE TENFSING

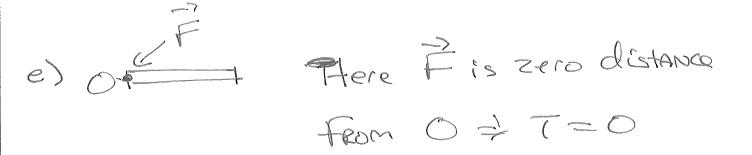
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So Tege STO STAS TBS TE

(a)
$$= \frac{1}{7}$$
 Fot $= \frac{1}{7}$ $= \frac{1}{7$



RHR => 7= 34.6N.m, (x)



SIN180° =0 77=0

II you prefer, this F HAD NO PERP. Component. It was All parallel.