

EQUATIONS OF MOTION Where q 196 x X: (M+m) x - (mlocoso-mlosino) = FE) F(t)=(M+m)x-mlocoso+mlozsna \$\forall \text{substitute (9) → (7) where q is 0 O: ml2 - mlx + mlx & sin O - ml O x sin O - mg /sin O = 0 Divide by mli 10-xcoso-gsino=0 NOTE, O'S EQN EQUALS ZERO B/C THERE IS NO EXTERNAL LOAD

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