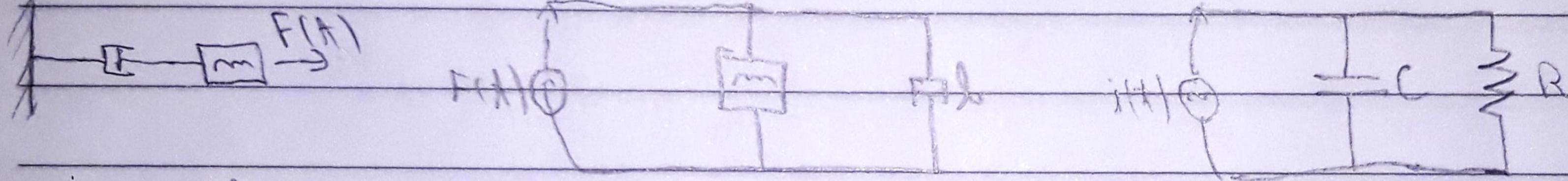


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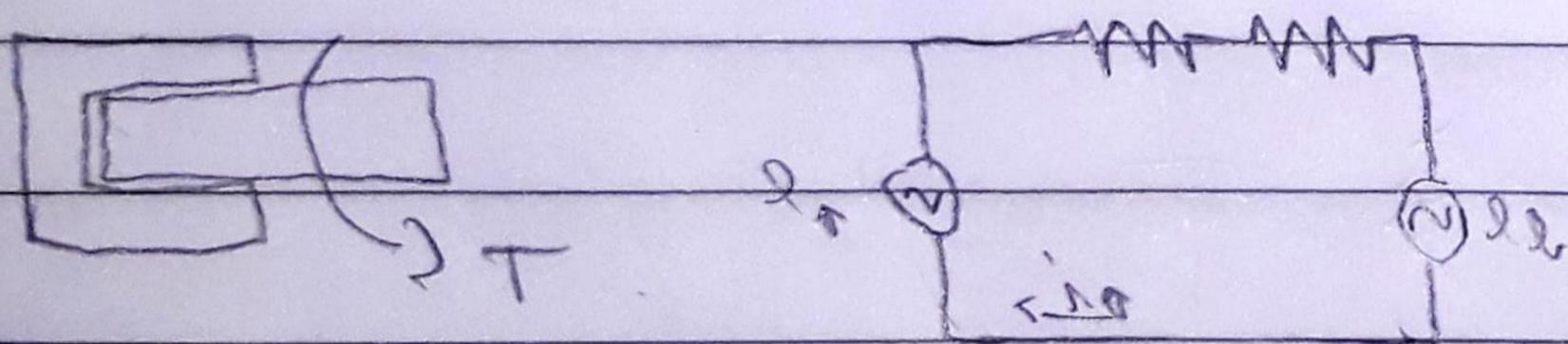
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1.



$$V_A \left(cD + \frac{1}{R} \right) = i(t) \Rightarrow m\ddot{x} + b\dot{x} = D\dot{x}$$

2.



$$(LD + R)i = v_e$$

$$\Rightarrow J\ddot{\theta} + b\dot{\theta} = k i_a$$