

No sliding friction.

- a. Find the analogous electrical system using the force-voltage analogy. Indicate the values of all components in the electrical system (resistors, capacitors, inductors, etc.). Show \dot{x} and \dot{y} on your electrical system. Explain the steps you use to find your electrical system.
- b. Find the analogous electrical system using the force-current analogy. Indicate the values of all components in the electrical system (resistors, capacitors, inductors, etc.). Show \dot{x} and \dot{y} on your electrical system. Explain the steps you use to find your electrical system.





Find the analogous mechanical system using the <u>force-current</u> analogy. Indicate the values of all components in the mechanical system (springs, masses, dampers, etc.). Show e_{c1} and e_{c2} on your mechanical system. Explain the steps you use to find your mechanical system.



Find the analogous mechanical system using the <u>force-voltage</u> analogy. Indicate the values of all components in the mechanical system (springs, masses, dampers, etc.). Show i_1 and i_2 on your mechanical system. Explain the steps you use to find your mechanical system.