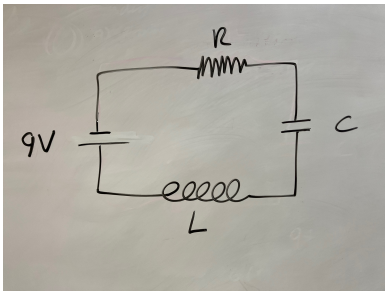Name

- Write down ODE for the circuit.

1. Write down and solve the ODE for the circuit with the inductor replaced by a wire.

■ Solve $y' = 2y + e^t$ $y(0) = 1$

2. Solve $y' + 2ty = te^{-t^2}$