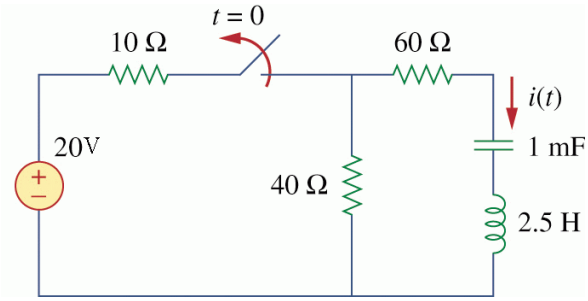
P1 A series RLC circuit has R = 10 kΩ, L = 0.1 mH, and C = 10 μF. What type of damping is exhibited?
Hint: ω_o is roughly 30,000

P2 Find i(t) for t > 0.
Hints:
- i'(0^+) is between -10 and -5 A/s.
- One of the two coefficients of the natural solution is zero when solved for using the initial conditions.



P3 Find C in the circuit below so that the response is underdamped with a unity damping factor (α = 1).
Hint: C is a "nice" number between 10 mF and 100 mF.