Given an underdamped parallel RLC circuit. Assume that
\[ v(t) = A_1 e^{s_1 t} + A_2 e^{s_2 t}. \]
Prove that \( A_1 = A_2 \).

HINT: start with the above equation and the two quantities that we used in class:
\[ v(0^+) \text{ and } \frac{dv(0^+)}{dt}. \]
Use your knowledge of the form of the roots of the characteristic equation.