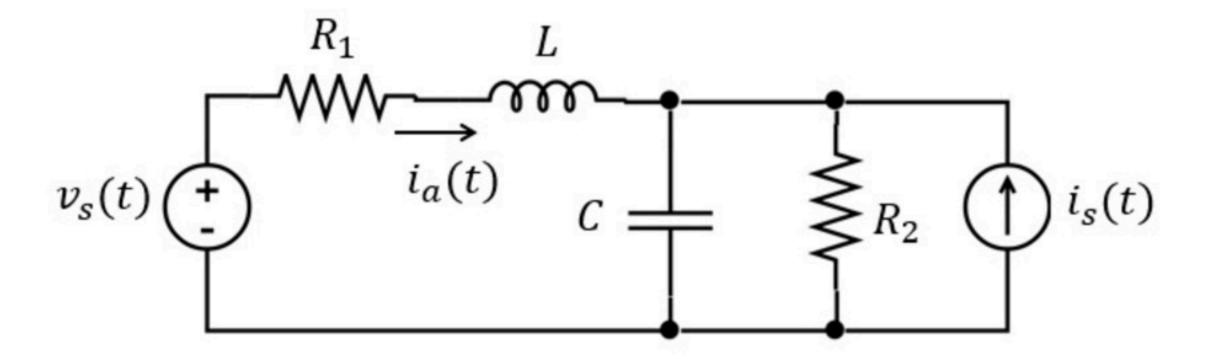
## Phasors 010

## Problem has been graded.

$$v_s(t) = A_1 \cdot \cos(100t) \quad \text{and} \quad i_s(t) = A_2$$
 Find  $i_a(t) = A_3 \sqrt{2} \cdot \cos(100t + B_3) + A_4$  with  $-180^\circ < B_3 \le 180^\circ$ 



Given Variables:

A1:100 V

A2:6A

C: 0.1 mF

L: 1.5 H

R1:50 ohm

R2:100 ohm

Calculate the following:

A3 (A):

0.5

B3 (degrees):

-45

A4 (A):

-4