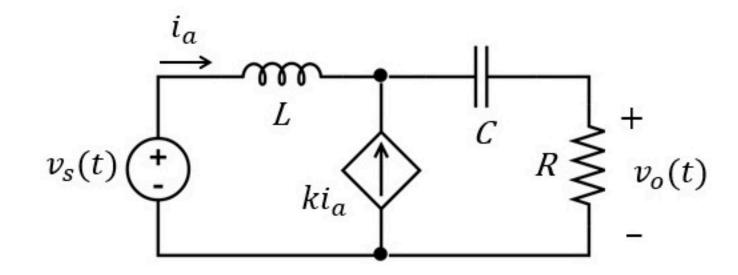
$$v_s(t) = A_1 \cdot \cos(1000t)$$

Find steady state voltage

$$v_o(t) = A_2\sqrt{2} \cdot \cos(1000t + B_2)$$
 with $-180^\circ < B_2 \le 180^\circ$



Given Variables:

A1:5 V

L: 20 mH

C:20 uF

R: 45 ohm

k:3 A/A

Calculate the following:

A2 (V):

2.5

B2 (degrees):

45