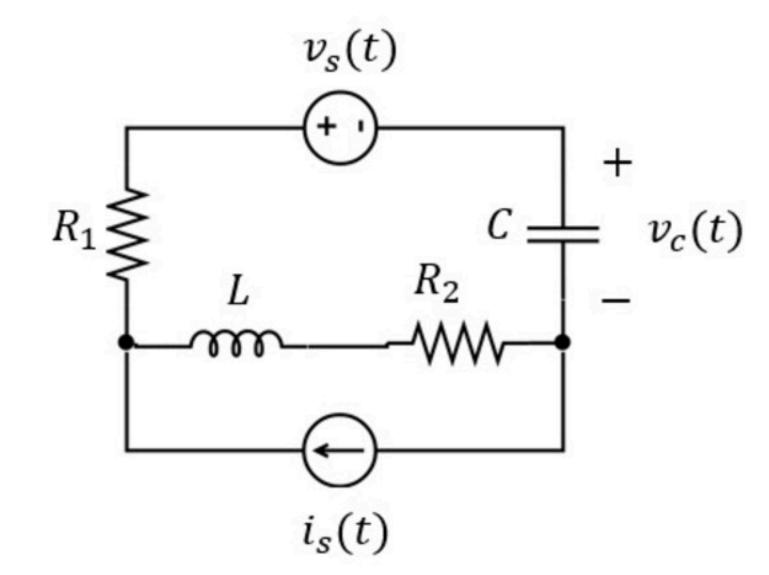
$$v_s(t) = A_1 \sqrt{2} \cdot \cos(W_1 t + B_1)$$

$$i_s(t) = 2 \cdot \cos(W_1 t - 90^\circ) \quad A$$

Find steady state voltage

$$v_c(t) = A_2\sqrt{2} \cdot \cos(W_2t + B_2)$$
 with $-180^\circ < B_2 \le 180^\circ$



Given Variables:

A1:14 V

B1:-45 degrees

W1: 2000 (1/s)

C: 125 uF

L:2 mH

R1:4 ohm

R2:4 ohm

Calculate the following:

A2 (V):

.....

B2 (degrees):

45

W2 (1/s):

2000