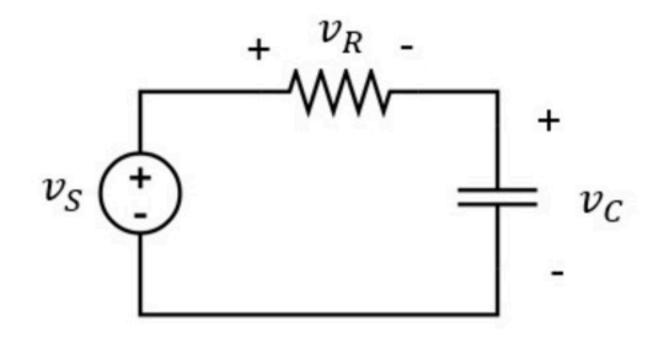
Phasors 004

Problem has been graded.

You are given
$$v_S = A_1 \cdot \sqrt{2} \cdot cos \ (100t + B_1)$$

$$v_C = A_2 \cdot cos \ (100t + B_2)$$

Find $v_R = A_3 \cdot cos (100t + B_3)$ with $-180^\circ \le B_3 \le 180^\circ$



Solve without using a calculator.

Given Variables:

A1:4 V

B1:20 degrees

A2:4 V

B2: -25 degrees

Calculate the following:

A3 (V):

4

B3 (degrees):

65