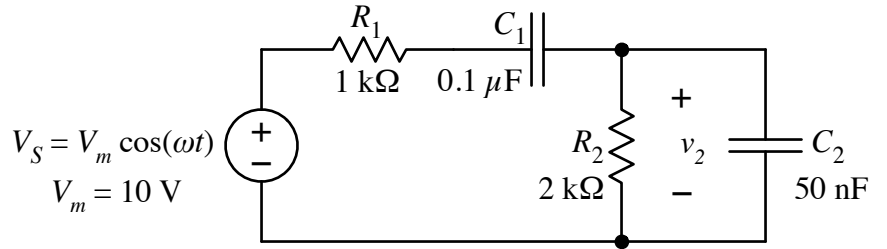


For the circuit shown, calculate the complex value of the voltage v_2 , for angular frequencies of 5 krad/s, 10 krad/s, and 20 krad/s. Express the answers in magnitude / phase form. Don't forget about units.



$\omega = 5000 \text{ rad/s} : \tilde{v}_2 = \underline{\hspace{15em}}$

$\omega = 10,000 \text{ rad/s} : \tilde{v}_2 = \underline{\hspace{15em}}$

$\omega = 20,000 \text{ rad/s} : \tilde{v}_2 = \underline{\hspace{15em}}$