

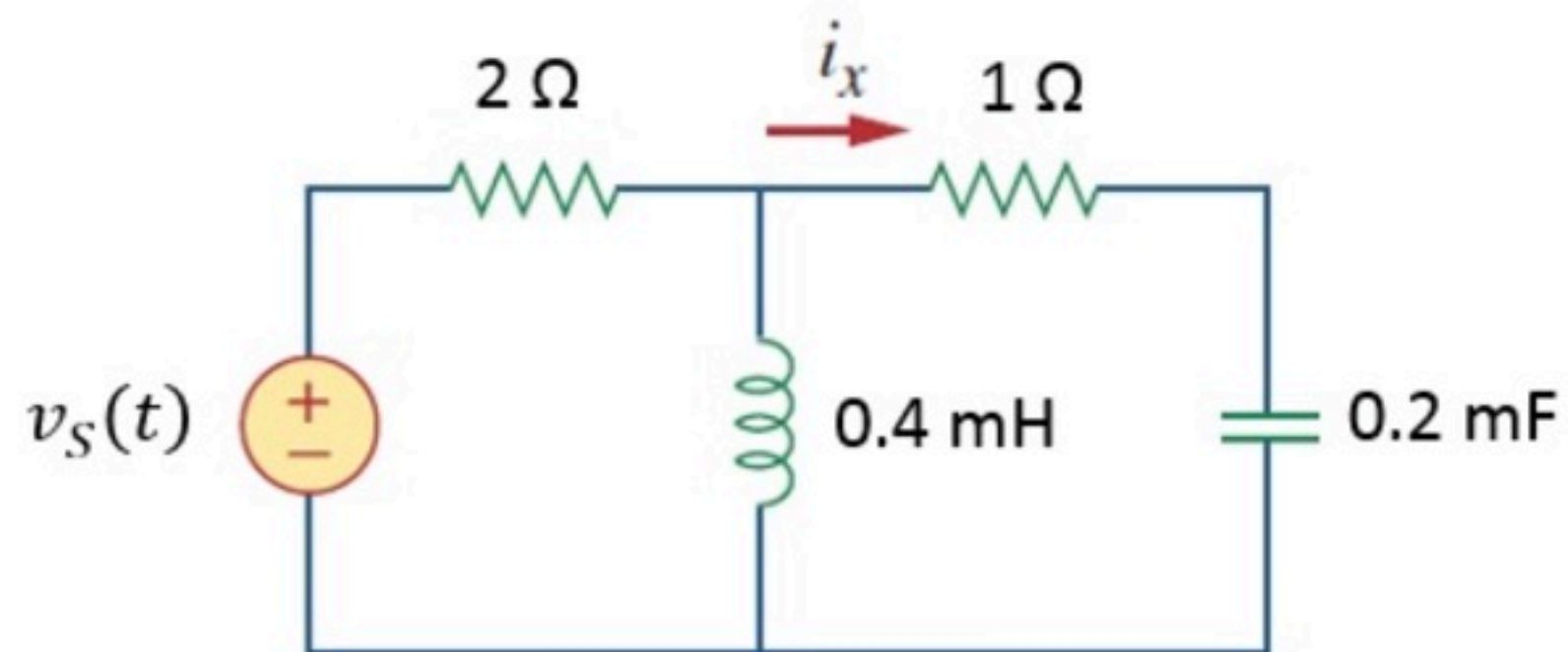
PP Phasors 012

Unlimited Attempts.

$$i_x(t) = 3\sqrt{2} \cdot \sin(5000t + 30^\circ) \text{ A}$$

Find $v_S(t) = A \cdot \cos(W \cdot t + B)$.

(with $0 \leq A$ and $-180^\circ \leq B \leq 180^\circ$)



Given Variables:

. : . .

Calculate the following:

A (V) :

12



W (rad/s) :

5000



B (degrees) :

-105



Hint: Stay algebraic with Vs as long as you can