

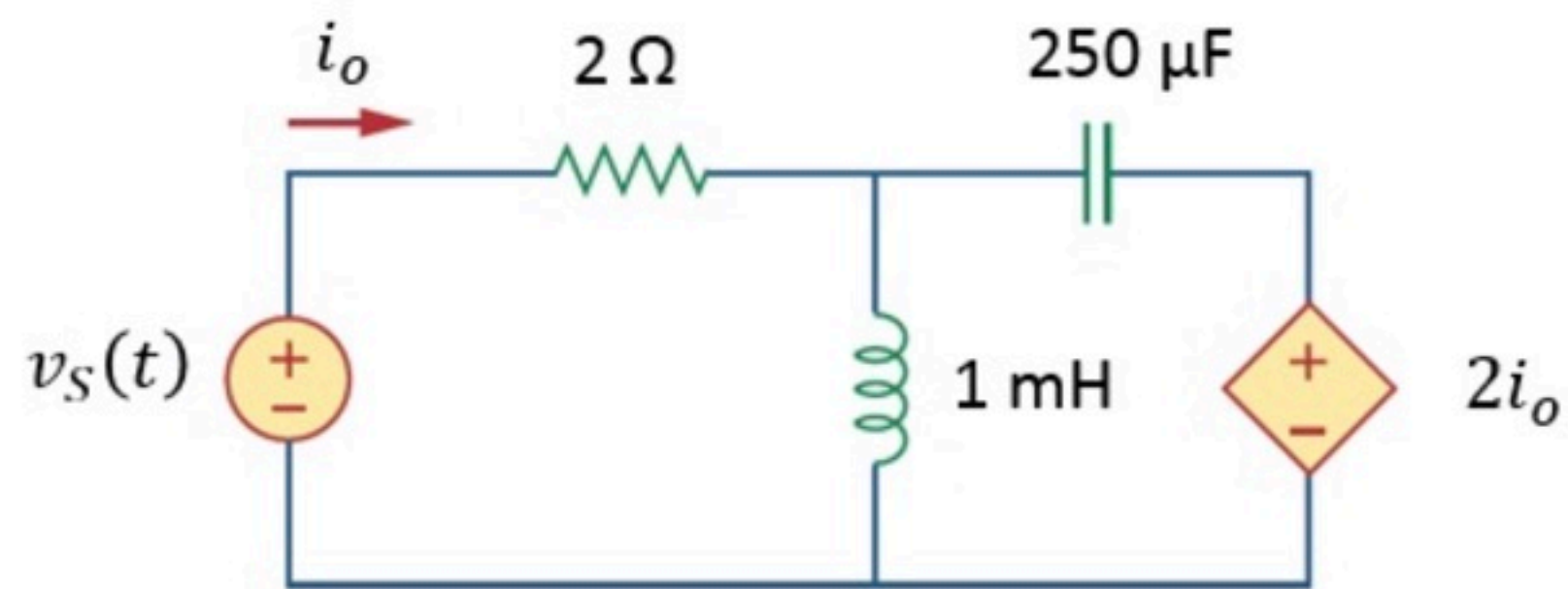
# PP Phasors 016

Unlimited Attempts.

$$v_S(t) = -\sqrt{2} \cdot \cos(1000t) \text{ V}$$

$$\text{Find } i_o(t) = A \cdot \cos(W \cdot t + B) .$$

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



Given Variables:

. . .

Calculate the following:

A (A) :

0.75



W (rad/s) :

1000



B (degrees) :

135



Hint: Consider nodal analysis. Leave V algebraic until the end.