

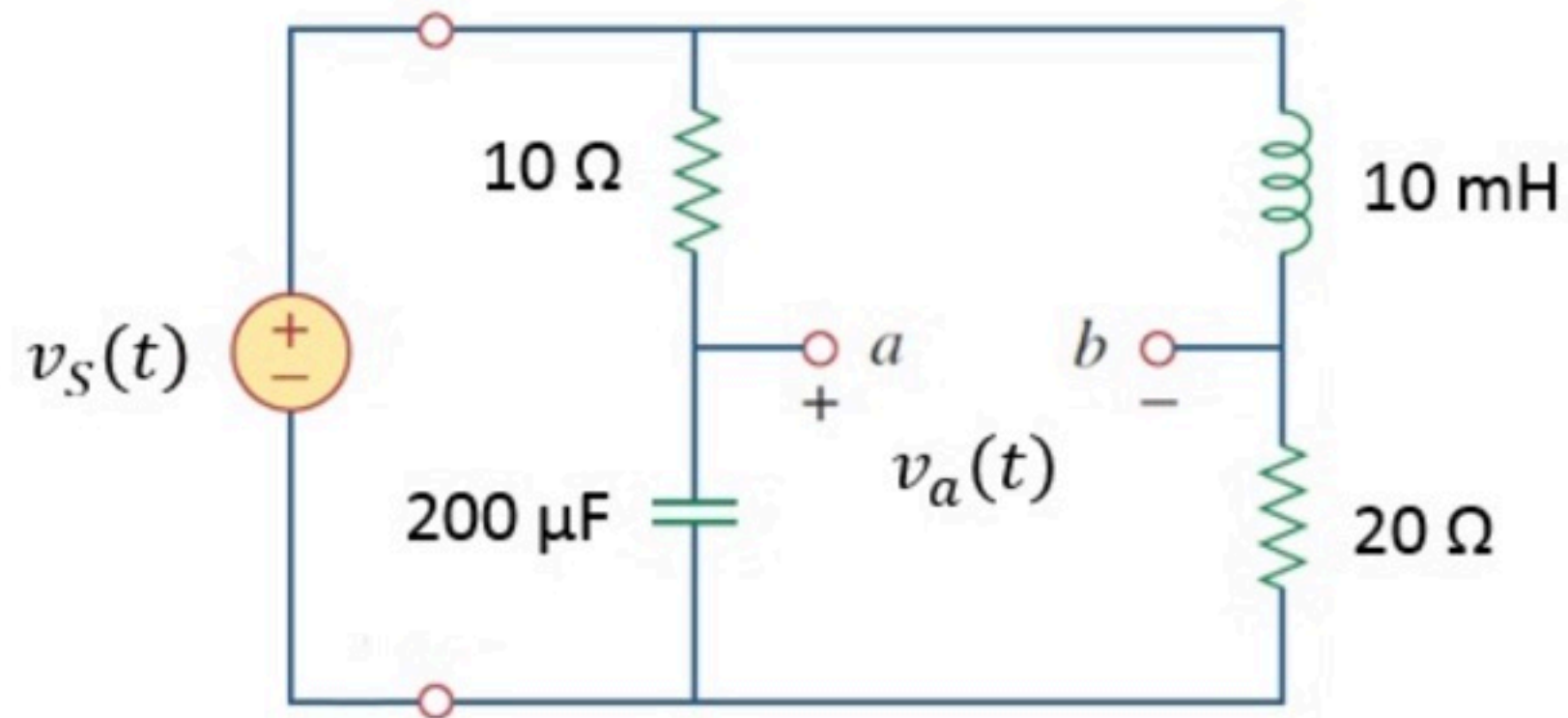
PP Phasors 014

Unlimited Attempts.

$$v_S(t) = 20 \cdot \sin(1000t + 45^\circ) \text{ V}$$

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

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



Given Variables:

...

Calculate the following:

A (V) :

12



W (rad/s) :

1000



B (degrees) :

135



Hint: Use voltage divider.