PP Phasors 022

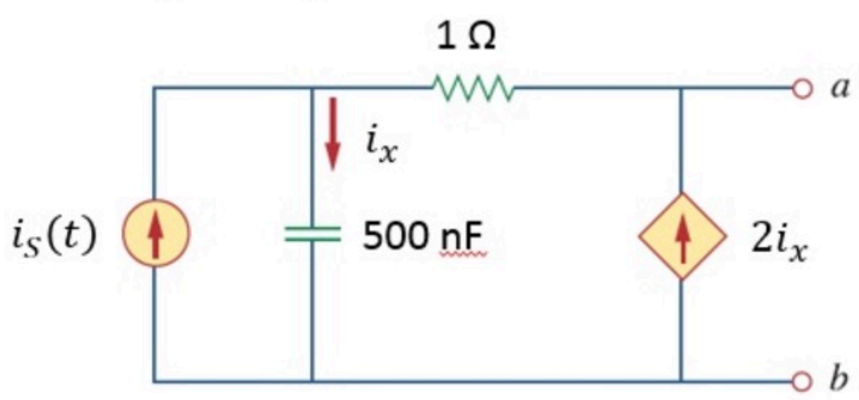
Unlimited Attempts.

$$i_S(t) = -15 \cdot \sin(10^6 t)\ \text{A}$$

Find the Norton equivalent model between a and b, in phasor notation:

$\mathbf{I_N} = a + jb$

$\mathbf{Z_N} = c + j\text{d}$



Note: This phasor Norton model is only valid for the particular frequency of the source (in this case, $\omega = 10^6$ rad/s).

Given Variables:

. : . .

Calculate the following:

a (A) :

-6 ✓

b (A) :

18 ✓

c (ohm) :

-1 ✓

d (ohm) :

2 ✓

Hint: Use a test voltage or current to find ZN.