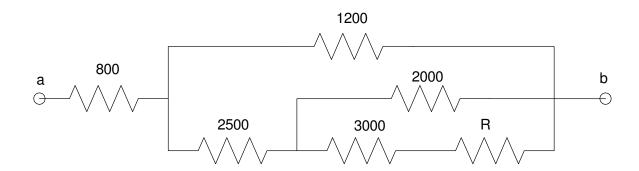
ECE 320 - Quiz #1 - Name _

EE 206 Review. Friday, January 21st, 2022

- 1) Determine the resistance Rab. Assume
 - R = 1200 + 100* (your birth month) + (your birth date). For example, May 14th would give R = 1714

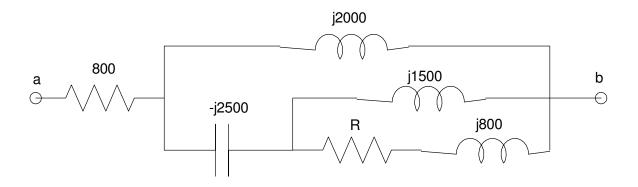
R 1200 + 100*mo + day	Rab



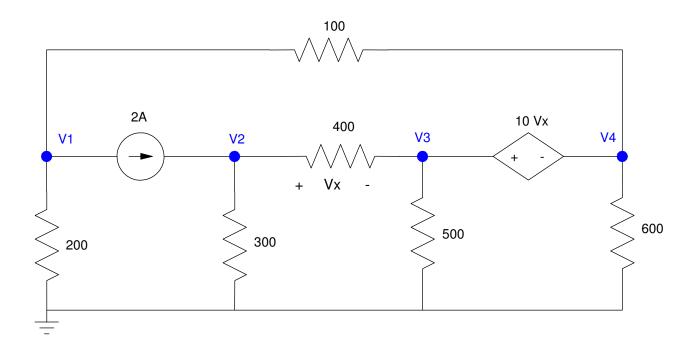
2) Determine the resistance Zab. Assume

• R = 1200 + 100* (your birth month) + (your birth date). For example, May 14th would give R = 1714

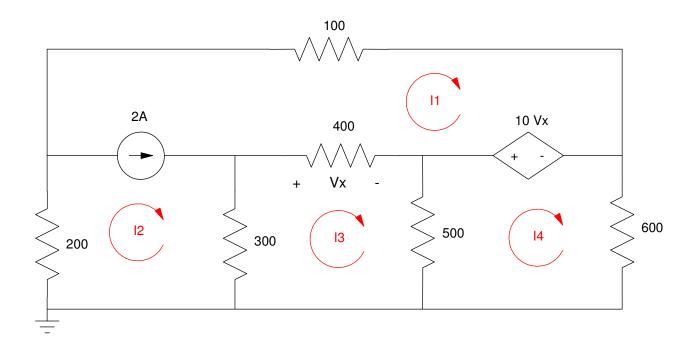
R 1200 + 100*mo + day	Zab



3) Give N voltage node equations to solve for the N unknown voltages.

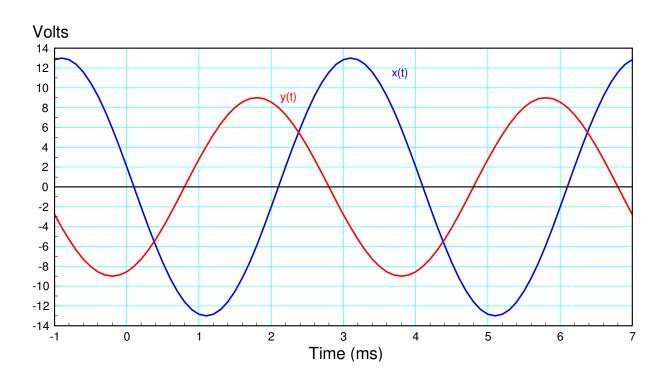


4) Give N current loop equations to solve for the N unknown currents



5) Signals X and Y are displayed on an oscilloscope. Give the phasor representation for these two voltages

Frequency	X		Y	
(Hz)	Amplitude	Phase	Amplitude	Phase



6) Determine y(t) assuming

$$x(t) = 20 + 15\sin(\omega t)$$

 $\omega = 1200 + 100*$ (your birth month) + (your birth date). May 14th would result in $\omega = 1714$ rad/sec

w (rad/sec) 1200 + 100*mo + day	y(t)

