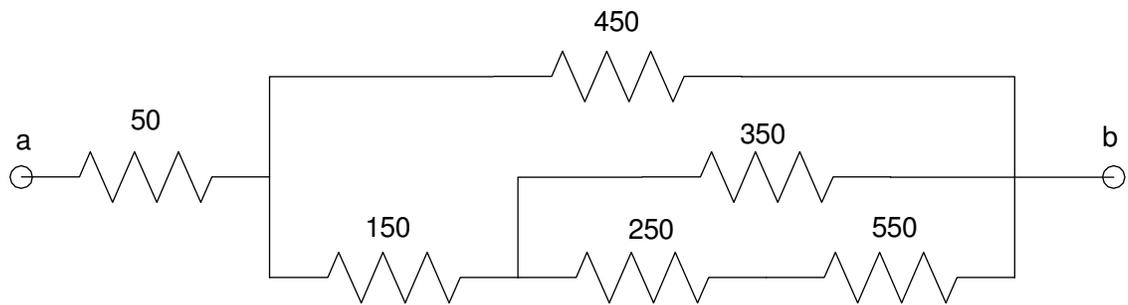


# ECE 320 - Quiz #1 - Name \_\_\_\_\_

EE 206 Review. September 3, 2020

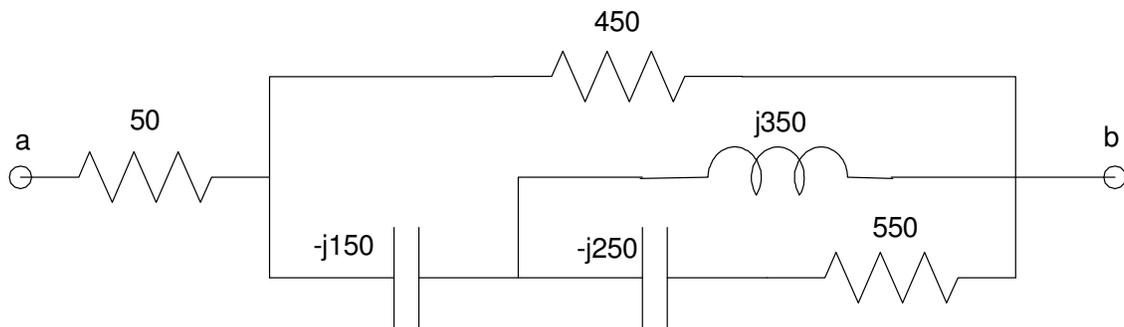
1) Determine the resistance  $R_{ab}$

$R_{ab} =$

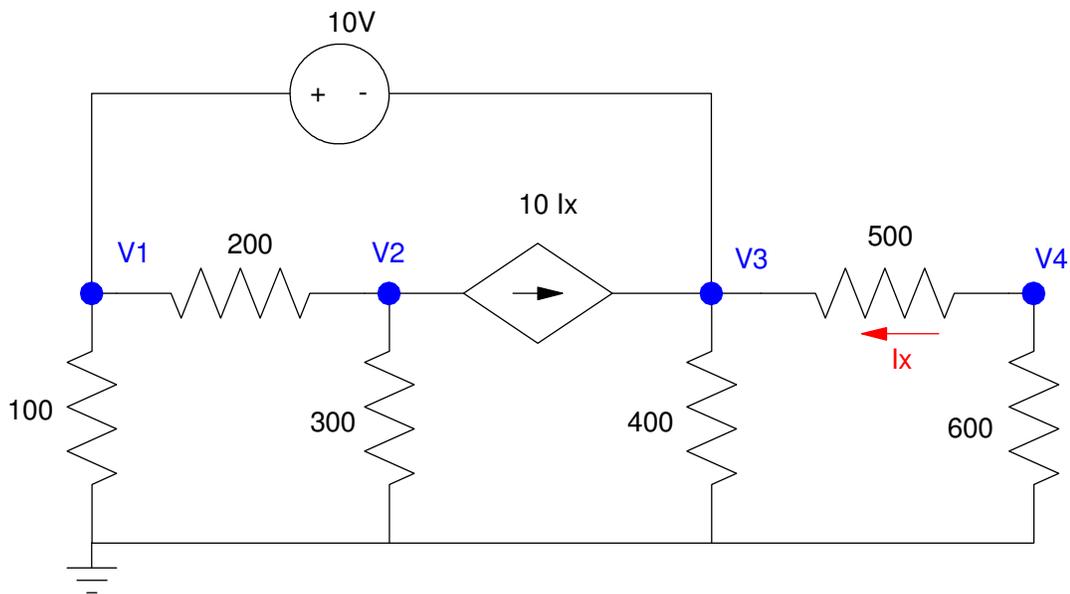


2) Determine the resistance  $R_{ab}$  (it will be a complex number)

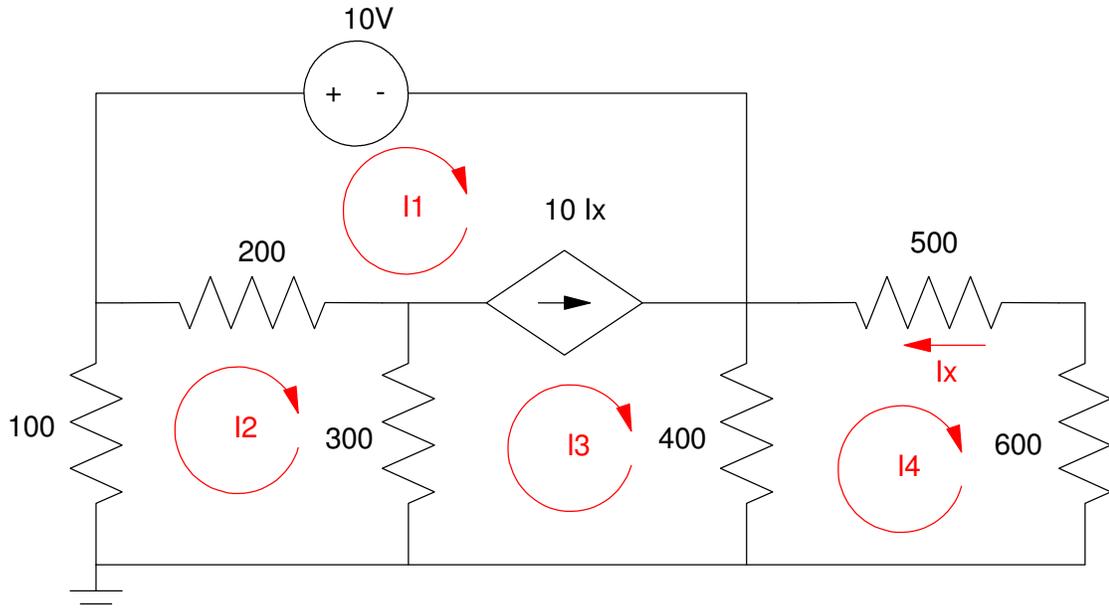
$R_{ab} =$



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

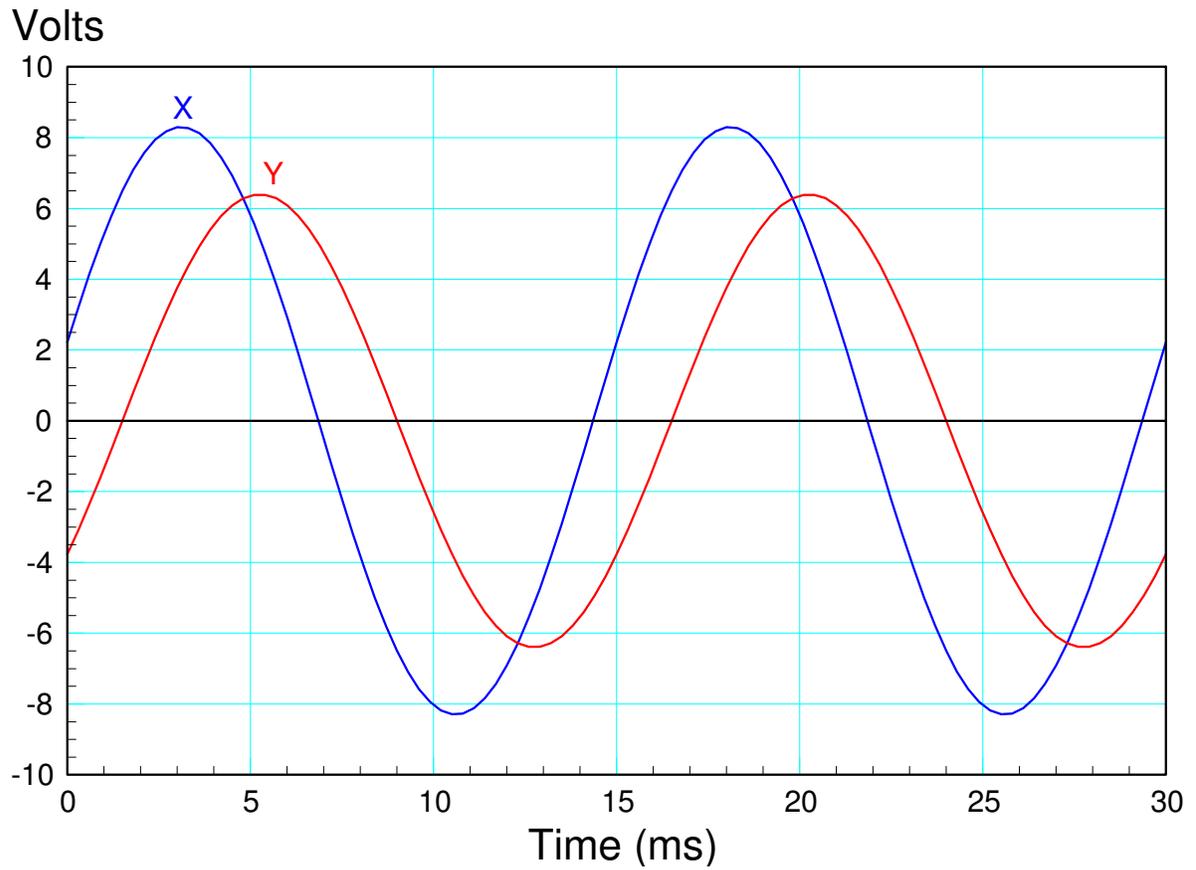



4) Current Loops: Give N current loop equations to solve for the N unknown currents




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

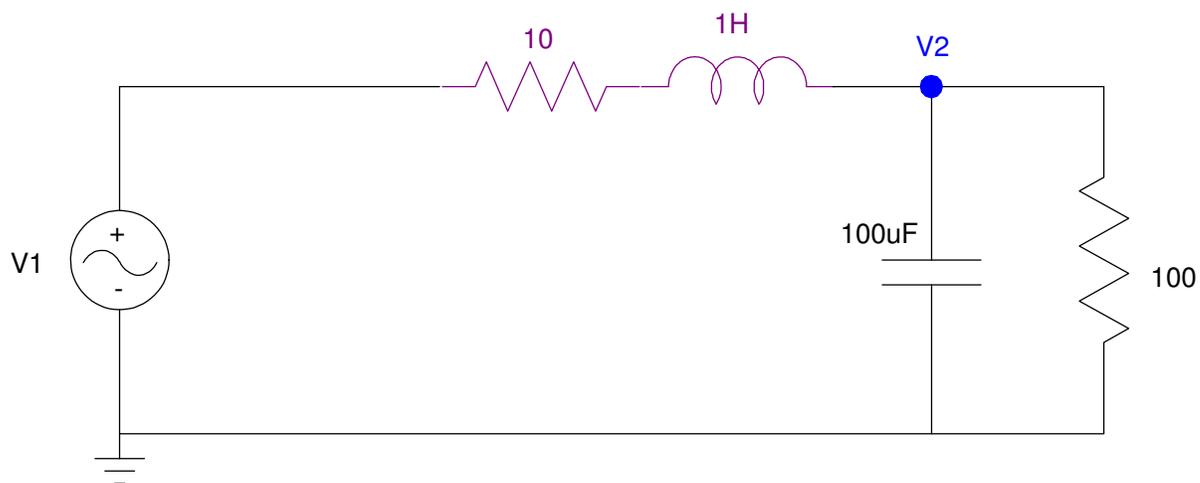
Frequency (Hz)	X		Y	
	Amplitude	Phase	Amplitude	Phase



6) Determine  $V_2(t)$  assuming

$$V_1(t) = 10 + 12 \sin(300t)$$

$V_2(t) =$



Bonus! Bernie Sanders Trivia!!! Which is the oldest (circle one)?

The oldest edible cheese (Bleeder) - The oldest (drinkable) champaign - Godzilla (first movie) - Bernie Sanders