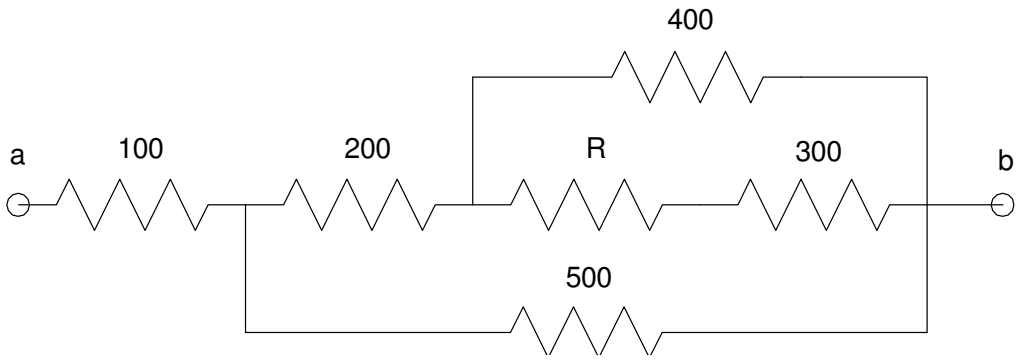
ECE 320 - Quiz #1 - Name _____

EE 206 Review. Spring 2023

1) Determine the resistance Rab. Assume

- R = 800 + 100*(your birth month) + (your birth date). For example, May 14th would give R = 1314

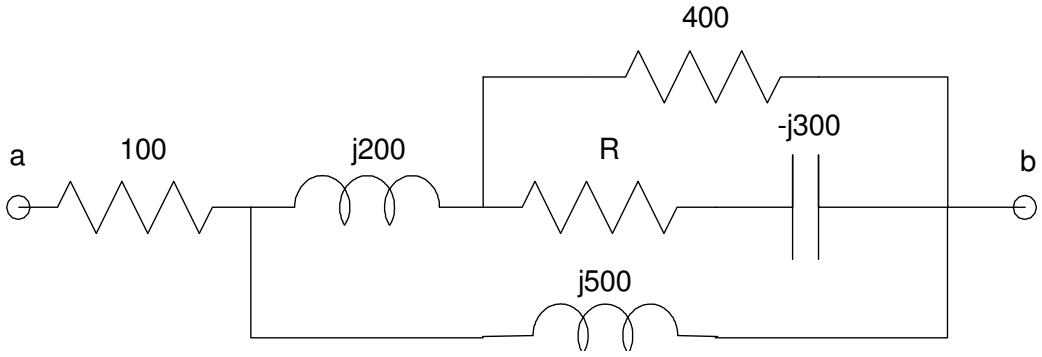
R 800 + 100*mo + day	Rab



2) Determine the resistance Zab. Assume

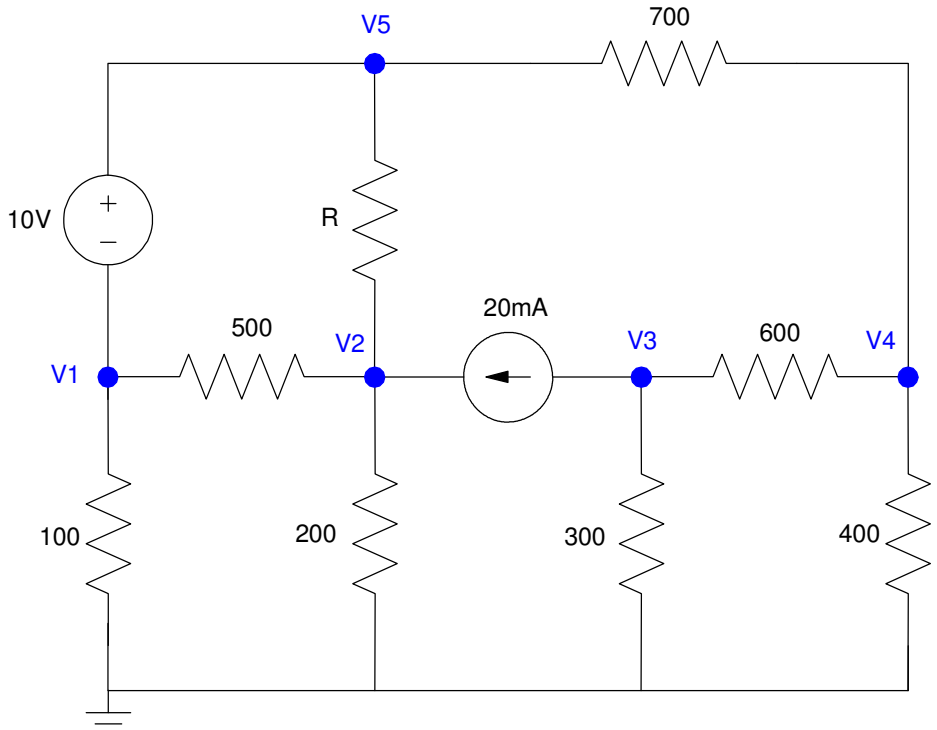
- R = 800 + 100*(your birth month) + (your birth date). For example, May 14th would give R = 1314

R 800 + 100*mo + day	Zab



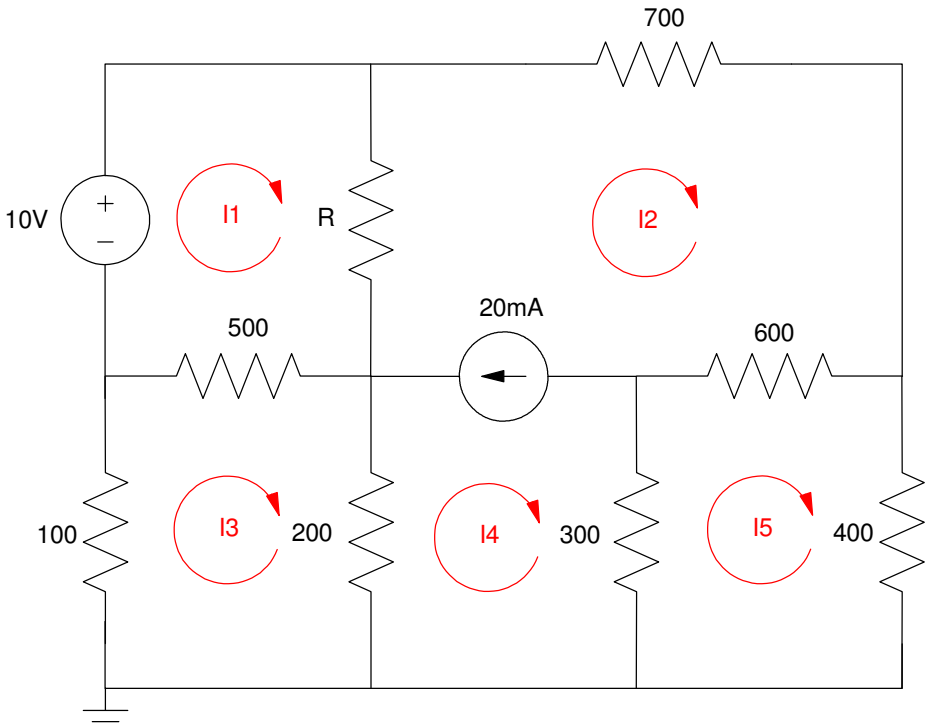
3) Give N voltage node equations to solve for the N unknown voltages. Assume

- R = 800 + 100*(your birth month) + (your birth date). For example, May 14th would give R = 1314



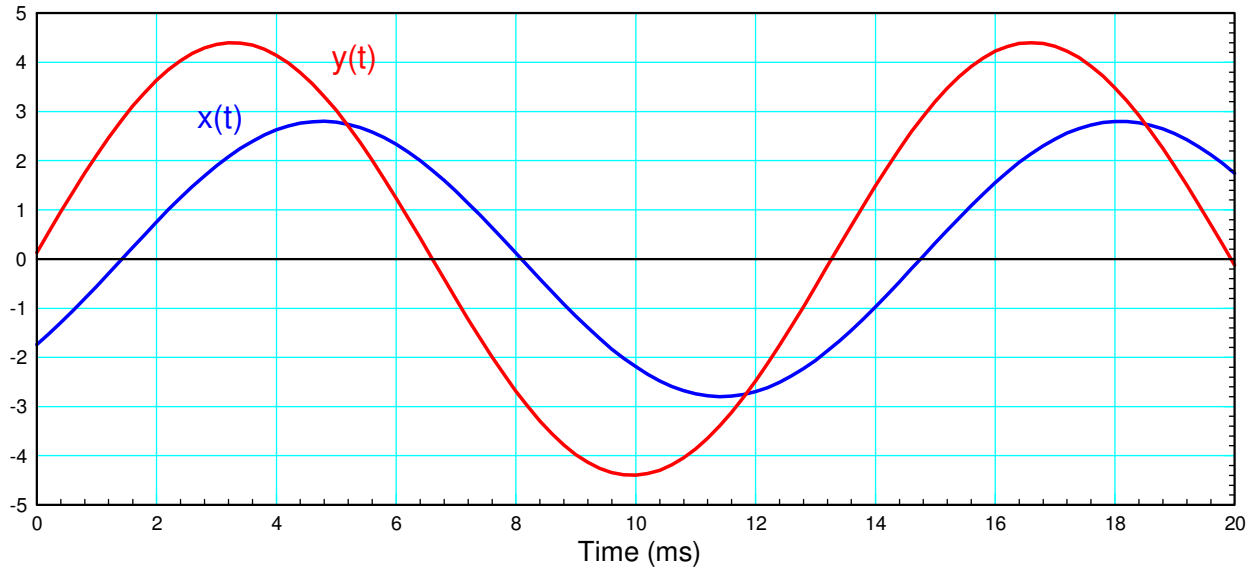
4) Give N current loop equations to solve for the N unknown currents. Assume

- R = 800 + 100*(your birth month) + (your birth date). For example, May 14th would give R = 1314



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 V2(t) assuming

$$V_1(t) = 12 + 13\sin(\omega t)$$

ω = 800 + 100*(your birth month) + (your birth date). For example, May 14th would give w = 1314

w (rad/sec) 800 + 100*mo + day	V2(t)