ECE 320 - Quiz #1c - Name _____

EE 206 Review. Fall 2021

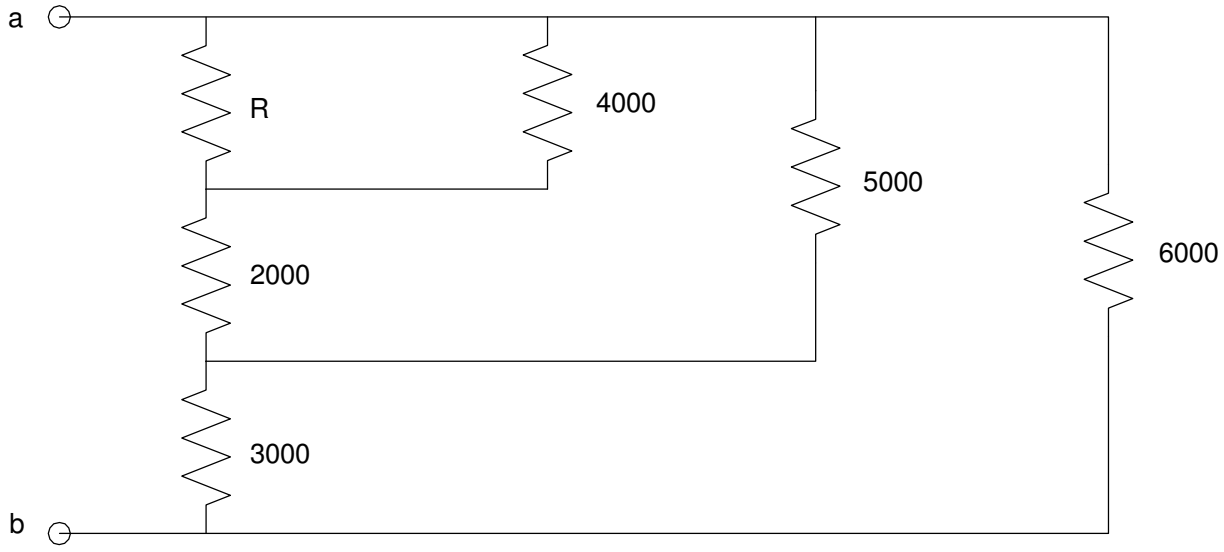
1) Let R be your birthday

R = 1000 + (month)*100 + (day)

For example, May 14th would give R = 1514 Ohms

Determine the resistance Rab

R 1000 + 100*month + day	Rab



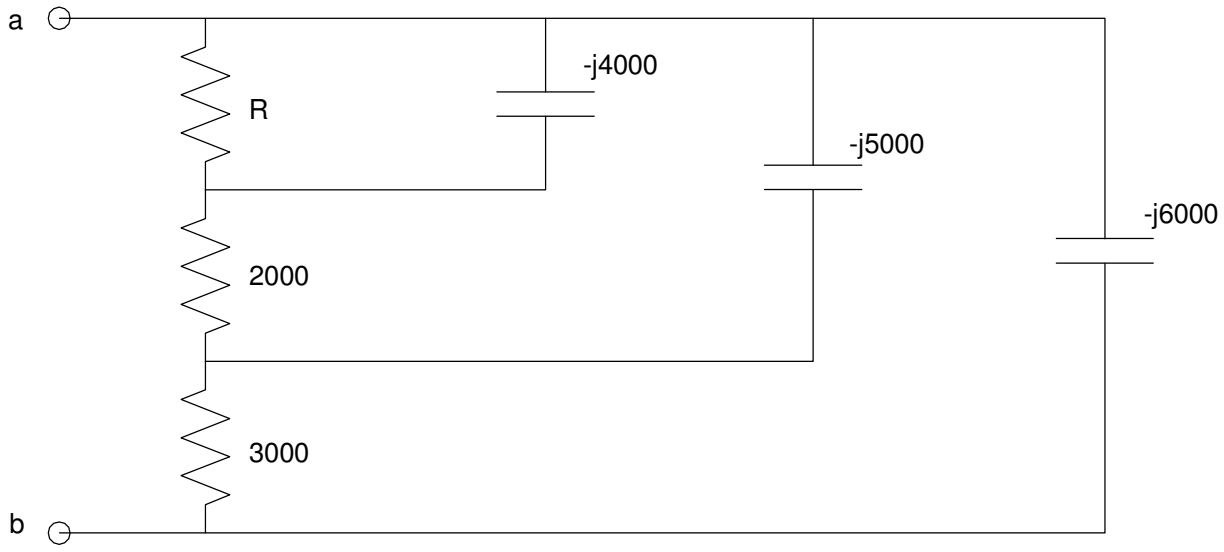
2) Let R be your birthday

R = 1000 + (month)*100 + (day)

For example, May 14th would give R = 1514 Ohms

Determine the resistace Rab (it will be a complex number)

R 1000 + 100*month + day	Rab

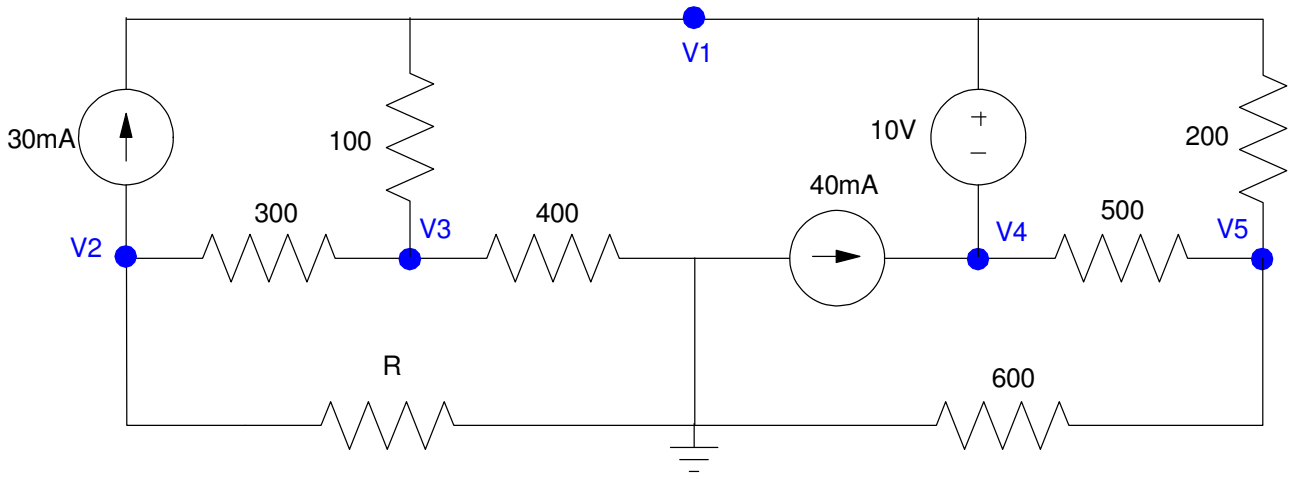


3) Voltage Nodes. Let R be your birthday

R = 1000 + (month)*100 + (day)

For example, May 14th would give R = 1514 Ohms

Give 5 equations to solve for the 5 unknown voltages. (you don't need to solve)

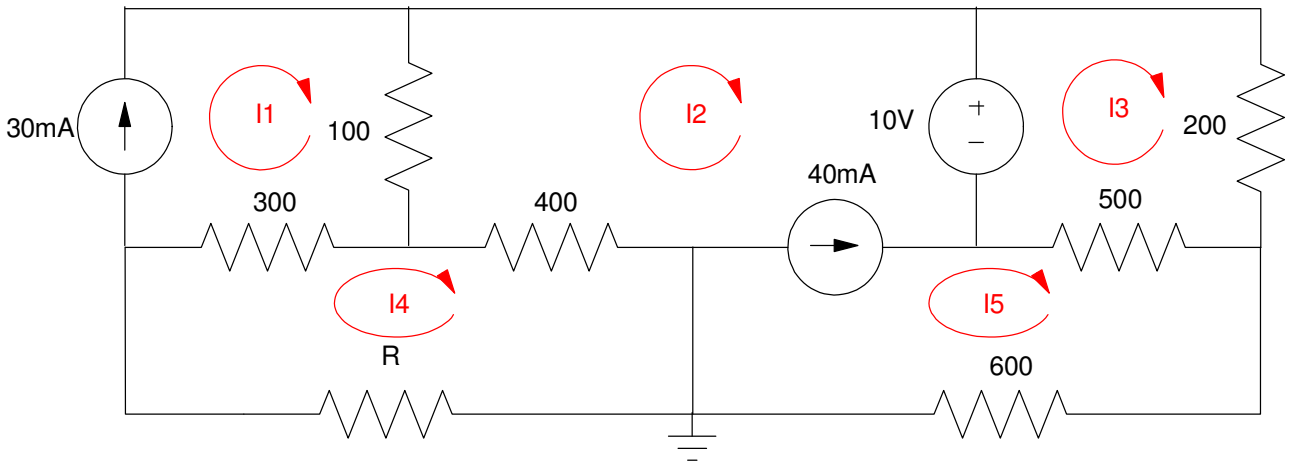


4) Current Loops. Let R be your birthday

R = 1000 + (month)*100 + (day)

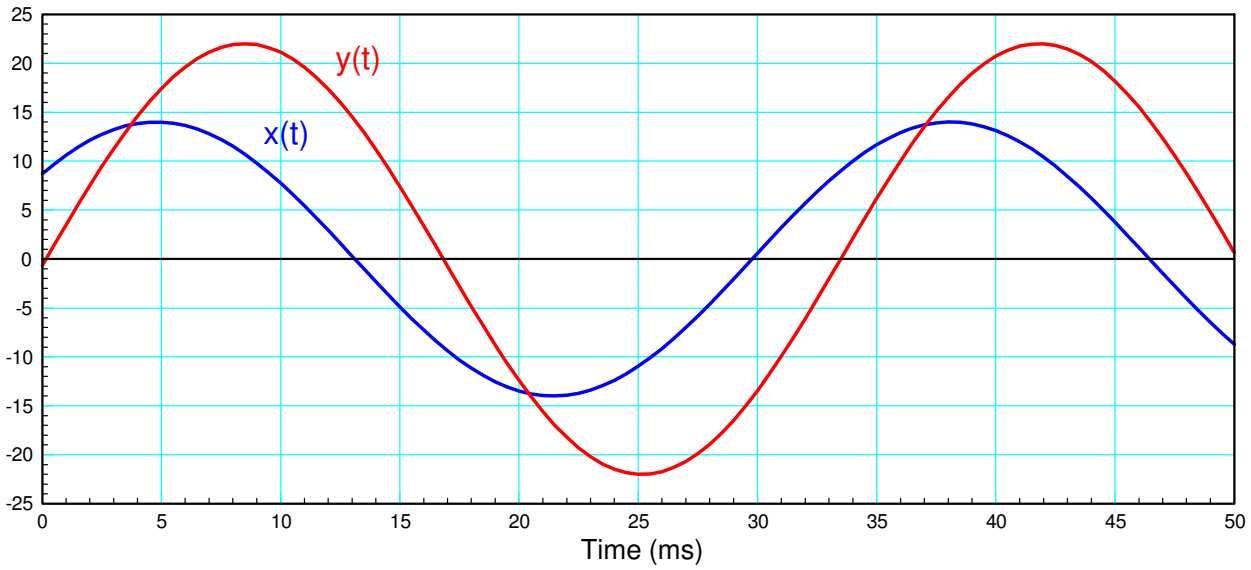
For example, May 14th would give R = 1514 Ohms

Give 5 equations to solve for the 5 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) Let R be your birthday

R = 1000 + (month)*100 + (day)

For example, May 14th would give R = 1514 Ohms

Determine V2(t) assuming

$$V_1(t) = 14 + 13\cos(800t) + 12\sin(800t)$$

R =	
V2(t) =