## EECSIGA DISTOA

"New" (old) setup. Technical issues. I wan't be able to hear, so type in chat!

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OH: WIDAM-12PM (HWP)

## Logistics

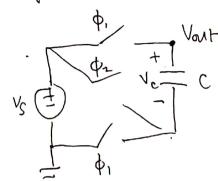
MT2 Today! Goodluch.

-> 25/pv () Voltage dividers - houte choose vesistars to get a design (analysis, design)

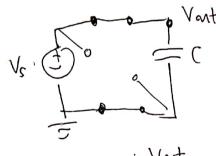
-> 49/10 (2) Charge sharing example -> Voltage doubles

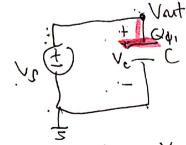
3) General Q&A





Find Vout in phase &, (\$1 switches closed)
\$2 switch open





How to determine charges for charge cons.

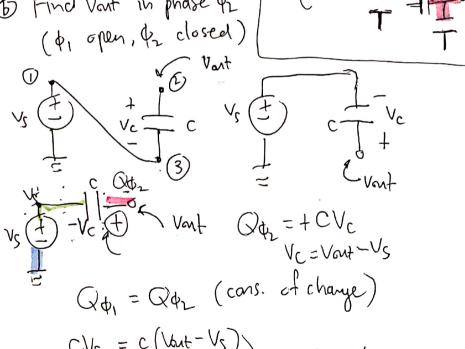
O Look a floating node in phase 2

2) Compute the skin of charges on their node as a function of node voltages

3 (ash at changes as they started in phase)

Floating node: node connected to only Cap. plates or

6 Find Vout in phase of



$$Q\phi_1 = Q\phi_2 \quad (cons. \ cf \ change)$$

$$CV_S = c \left( V_{S} - V_{S} \right) \quad V_S = V_{S} - V_{S}$$

$$V_{S} = V_{S} + V_{S}$$

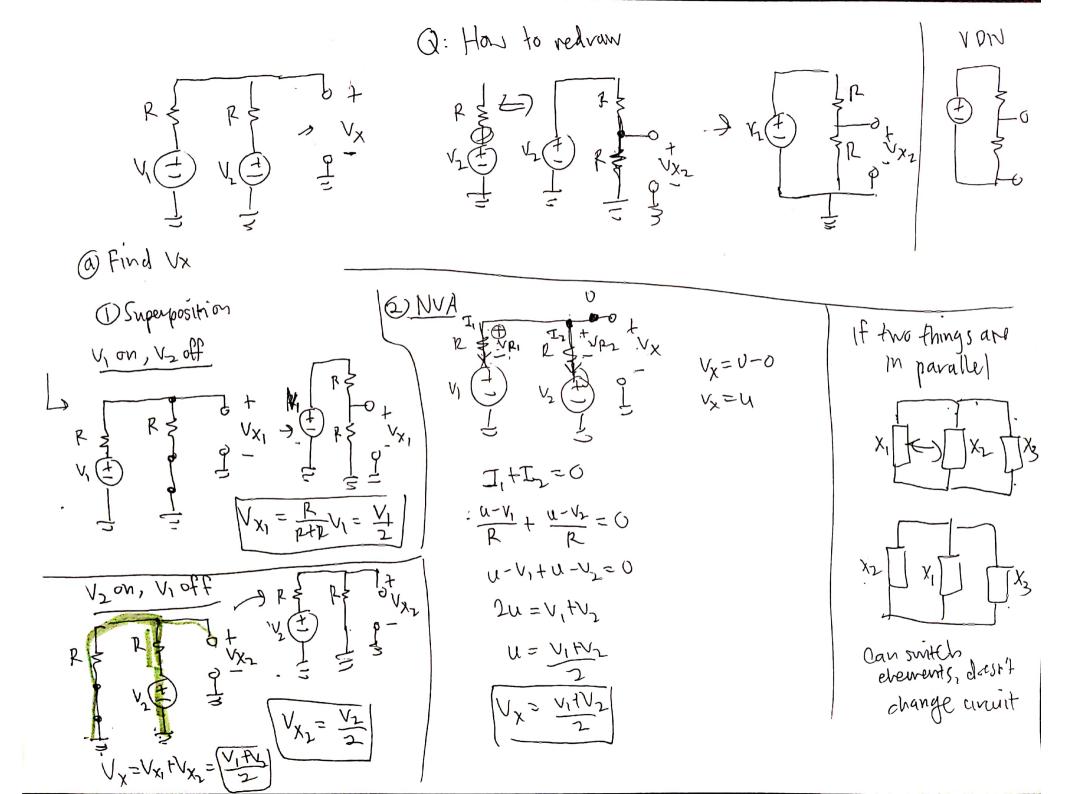
$$V_{S} = -CV$$

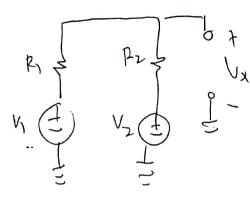
$$V_{C} = -CV$$

element voltage=

nodevoltage - node voltage

$$CV_S = -C(V_S - Vont)$$
  
 $V_S = -V_S + Vont$   
 $Vont = 2V_S$ 





$$V_{X} = \frac{R_{2}}{R_{1}TR_{2}}V_{1} + \frac{R_{1}}{R_{1}TR_{2}}V_{2} = \frac{1}{3}V_{1} + \frac{1}{3}V_{2}$$

P1 = 3 / Rith = 3

$$R_{2} = \frac{1}{3}R_{1} + \frac{1}{3}R_{2}$$

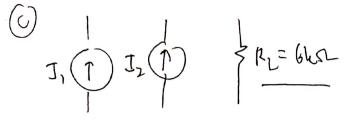
$$Q = \frac{1}{3}R_{1} - \frac{7}{3}R_{2}$$

$$R_{1} = \frac{7}{3}R_{2} = 0$$

$$R_{1} = 2R_{2}$$

$$R_{1} = 1h_{2}$$

$$R_{2} = 500 \Omega$$



$$I_{L}\left(\text{through }P_{L}\right) \stackrel{2}{\leftarrow} (I_{1}+I_{2})$$

$$I = I + I$$

