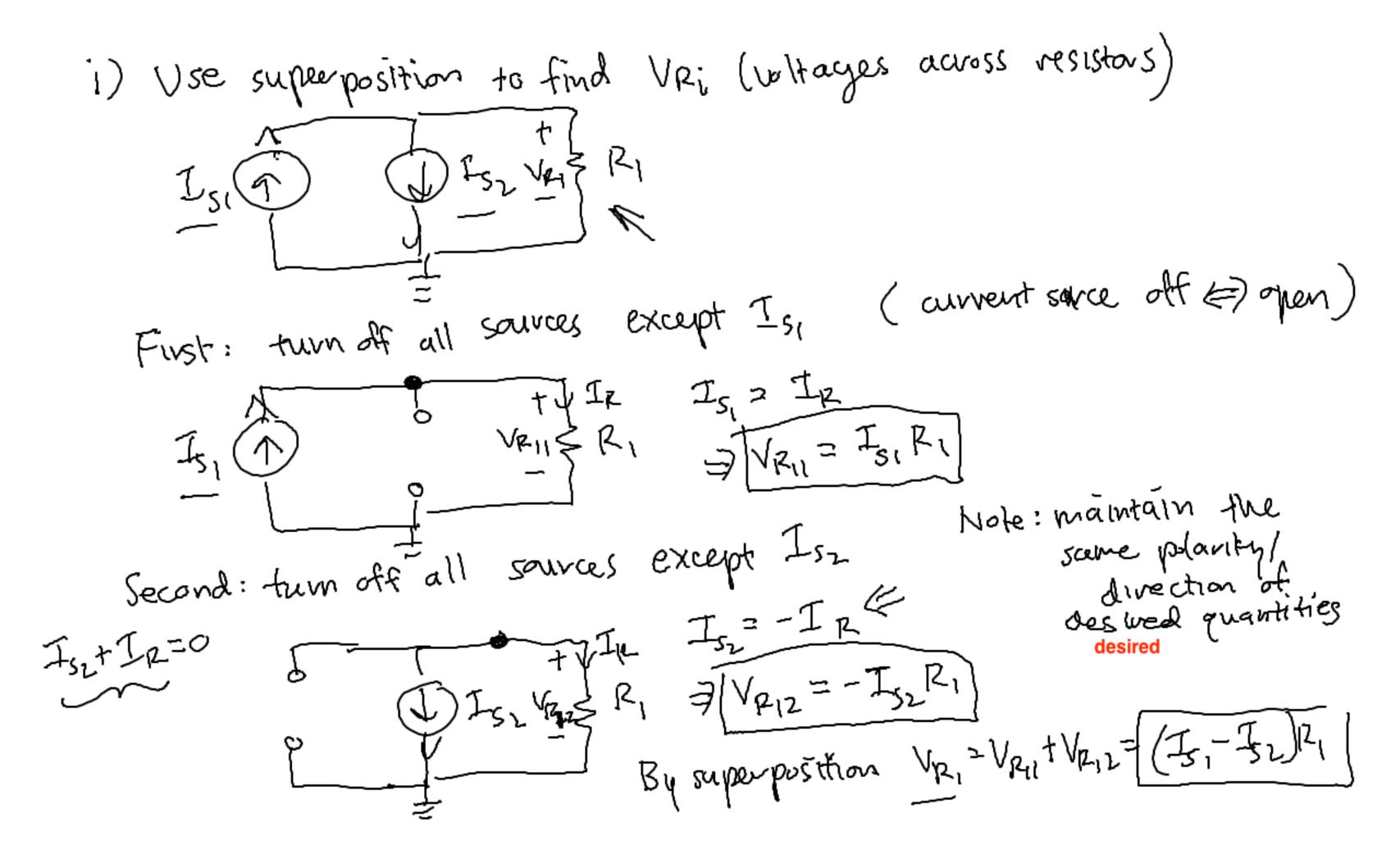
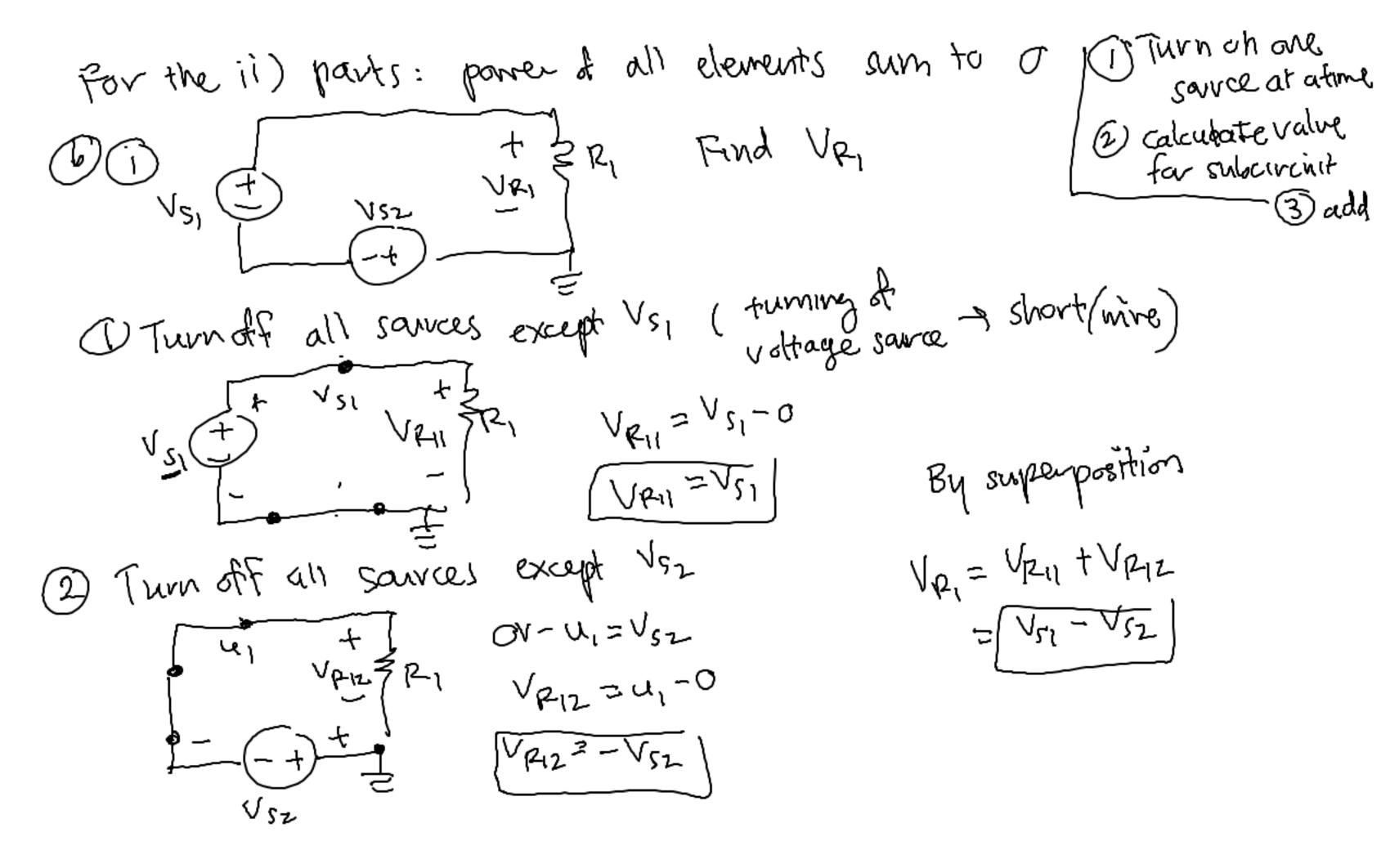
DIS 4A	
Examples for superposition [2] Techniques for finding therein & Novion equivalent [2] Techniques for finding marallel vesistors	circuits (23 methods)
Techniques for thating thought vesistors How to identify series and parallel vesistors Ly Han to reduce circuits	
Midsemester survey + fill this out	

Superposition: method for finding voltages is currents consider a voltage or current to be the sum of the effects of all sources acting independently IN T I Vs and Is work together to produce V but if calculate effects of Us \$ 1s Separately, we can add to find V Superpositions can't calculate pomer





Turn off Is, Keep Vs, on + VP3, - > (no current) VR11 = P1 VS1 VR21 = 12- V51 When applying Chegr S formulas, your assumption

Find VR, VR, VR3 Turn off Vs, leep Is, on I3+Is, =07 I3=-Is, VR3 = R3 I3 = - R3 Ist V VR12 = P1 II = R1P2 IS1 $I_1 = \frac{R_2}{R_1 + R_2} T_{S_1}$

By superposition

$$V_{R_{1}} = V_{R_{1}1} + V_{R_{1}2} = \frac{P_{1}}{P_{1}+P_{2}}V_{S_{1}} + \frac{P_{1}P_{2}}{P_{1}+P_{2}}I_{S_{1}}$$

$$V_{R_{2}} = V_{R_{2}1} + V_{R_{2}2} = \frac{P_{2}}{P_{1}+P_{2}}V_{S_{1}} + \left(-\frac{P_{1}P_{2}}{P_{1}+P_{2}}I_{S_{1}}\right)$$

$$V_{R_{3}} = V_{R_{3}1} + V_{R_{3}2} = OV + \left(-P_{3}I_{S_{1}}\right)$$

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Therenin & Norton equipalent . The a complicated cott. made of Vs, Is, and L's simplify to a model of a single source & single resistor · Madel behaves the same vay in terms of V, I Therenin eq. (Just find 73 (NUA) Isc = In. (NUA) 3/8) Find eq. resistance w/ all sources in clet. off -> [3/ii) Find test current + test voltage w/ all

