DISCUSSION B (Welk)
hursday, April 1, 2021 8:52 AM Review Quiz #2: 2) A & E are in series 3) Relationship between 0 lf V0 = -Vf  $V_{A} = 10V$ ,  $V_{C} = 15V$ ,  $V_{B} = 20V$ 

$$V_A + V_B - V_E = 0$$

$$V_B = V_E - V_A = 20 - 10 = 10$$

$$V_F = -V_D$$

$$V_{B} + V_{C} + V_{D} = 0$$

$$10V + 15V + V_{D} = 0 \rightarrow V_{D} = -25V$$

$$V_{F} = 25V$$

Divider

$$V = IR_1 + IR_2$$

$$V_2 = IR_2$$

$$V_2 = IR_2$$

$$V_3 = IR_4$$

$$V_4 = IR_4$$

$$V_7 = IR_4$$

$$V = I(R_1 + R_2)$$

$$V = I(R_1 + R_2)$$

$$V_2 = IR_1$$

$$V_2 = IR_1$$

$$V_3 = V_2$$

$$V_4 = V_2$$

$$V_4 = V_4$$

$$V_7 = V_7$$

$$V_8 = V_8$$

$$V_9 = V_9$$

## Current Divider

$$I_1 = \frac{R_2}{R_1 + R_2} I$$

$$I_1 : I_1 = I - I_2$$

$$I_2 = I_1 \neq I_2$$

$$\mathbb{Z}_{2} = \mathbb{I}_{1} \frac{k}{n}$$

$$T_{l} = T - \left(T_{l} \frac{R_{l}}{R_{r}}\right)$$

$$P_{00} \left[ I_1 = \left( \frac{R_2}{R_1 + R_2} \right) I_1 \right]$$

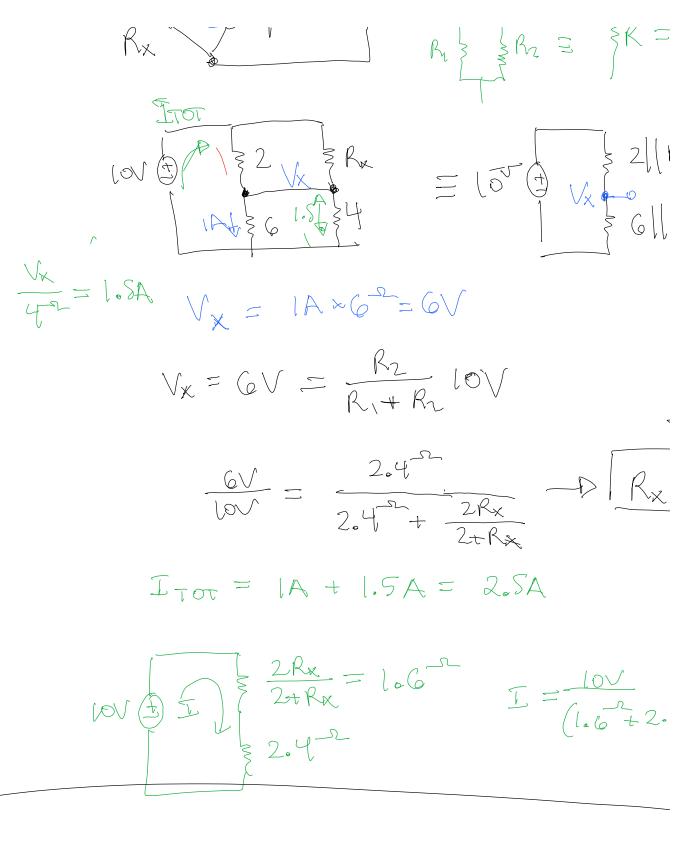
$$T_1 = \frac{10}{100} T = \frac{1}{2} T$$

Why? Sometimes His easier to solve for a current in terms of an current ( some for II in terms o

Problem 1

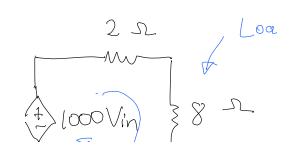
IA = 4-63 KN expressions

$$\frac{1}{2} = \frac{1}{2} = \frac{1}$$



Problem 2

SK2 VX FLAVINT & WKD



\*\* SN are delivered to the load (8 Pois  

$$P = \mathbb{T}^{2}R$$

$$L_{P} = \mathbb{T}^{2} = \frac{8N}{8R} - \mathbb{P} \left[\mathbb{F}_{2} = \mathbb{I}^{2}\right]$$

$$\mathbb{F}_{2} = \mathbb{F}_{3} = \mathbb{F}_{2}$$

$$\mathbb{F}_{3} = \mathbb{F}_{3} = \mathbb{F}_{3}$$

$$\mathbb{F}_{3} = \mathbb{F}_{3} = \mathbb{F}_{3}$$

$$\mathbb{F}_{3} = \mathbb{F}_{3} = \mathbb{F}_{3} = \mathbb{F}_{3}$$

$$\mathbb{F}_{4} = \mathbb{F}_{3} = \mathbb{F}_{3} = \mathbb{F}_{3} = \mathbb{F}_{3}$$

$$\mathbb{F}_{4} = \mathbb{F}_{3} = \mathbb{F}_{3} = \mathbb{F}_{3} = \mathbb{F}_{3} = \mathbb{F}_{3}$$

$$\mathbb{F}_{4} = \mathbb{F}_{3} = \mathbb{F}_{3} = \mathbb{F}_{3} = \mathbb{F}_{3} = \mathbb{F}_{3} = \mathbb{F}_{3}$$

$$\mathbb{F}_{4} = \mathbb{F}_{3} =$$

$$\mathbb{O} V_{X} - \mathbb{I}_{l}(5^{k}) - \mathbb{I}_{l}(10^{k}) = 0$$

$$V_{X} = \mathbb{I}_{l}(15^{k}) = \mathbb{I}_{l}(15^{k})$$