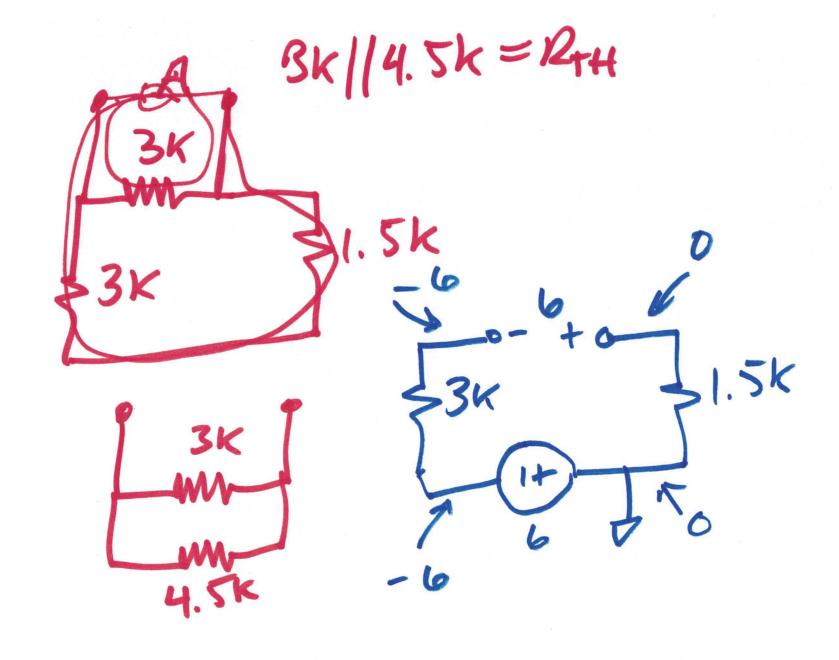
EE 220 CINCUITS I 5+5.13,00CT. 11, 2023 = \$ Lecture 13, 2023 5 + I6K +I.3k=0 VIN = I.6K, VIN = -5

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$$\frac{65}{3} \sqrt{\frac{1}{1}} + \frac{1}{1} \sqrt{\frac{1}{1}} = \frac{1}{3} \sqrt{\frac{1}{3}} + \frac{1}{3} \sqrt{\frac{1}{3}} = \frac{1}{30} \sqrt{\frac{1}{3}} = \frac{1}{3$$

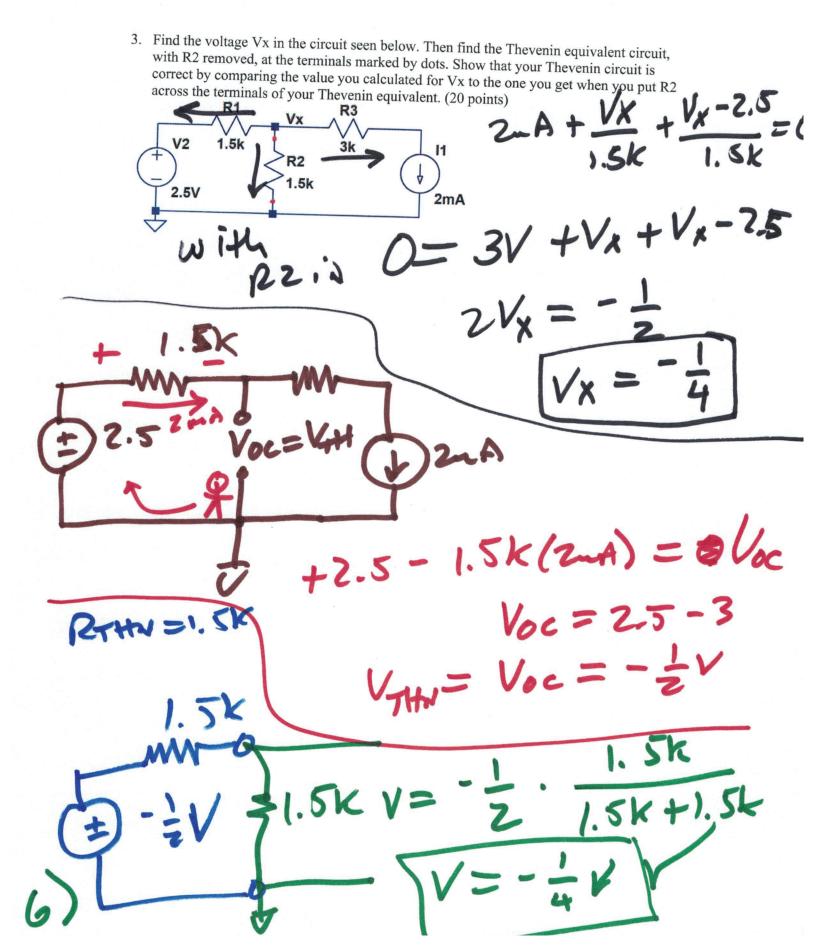
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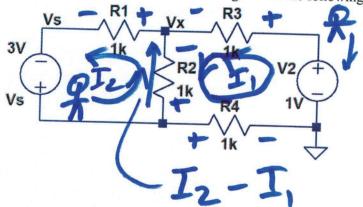


Midterm Exam - EE 220 Circuits I Fall 2022 - University of Nevada, Las Vegas NAME: Closed book and notes. Show your work for credit and put a box around your answers. 1. Find the current, in the following circuit, that flows in R2. (10 points) 1mA Vbot Vbot 2. Find Vx in the following circuit using superposition. (10 points) R3 1k 1mA 2k 2k VXIK

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4. Using mesh analysis find the voltage Vx in the following circuit. (20 points)



$$0 - 1K(I_2 - I_1) - 1KI_2 + 3 = 0$$

$$0 - 1V + 1KI_1 - 1K(I_2 - I_1) + 1KI_1 = 1$$

5. Find Vout in the following circuit. (20 points) 1.5 - SOOT - IKT = 3.A \$ \ 3.A

6. Find VB in the following circuit. (20 points)

R1

V1

R3

1k

V2

1k

VB

VB

R3

1k