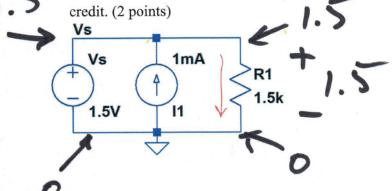
EE 220 circuits 1 2020 Sept. 14, Lecture 4 V3 ELECTRICAL & COMPUTER ENGINEERING CMOSedu.com Quiz #4 EE 220 Fall 2020

Name: Page 2

Closed book and notes.

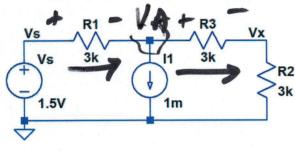
Show your work for credit and place a box around each of your answers.

1. Determine the current through R1 in the direction indicated. Again, show your work for



$$T = \frac{1.5V}{1.5K} = 1.4A$$

2. Find Vx in the following circuit. (5 points)



$$\frac{1.5 - 44}{3K} = 1.4 + \frac{44}{61}$$

$$3 - 24A = 6 + 44$$

$$-3 = 34$$

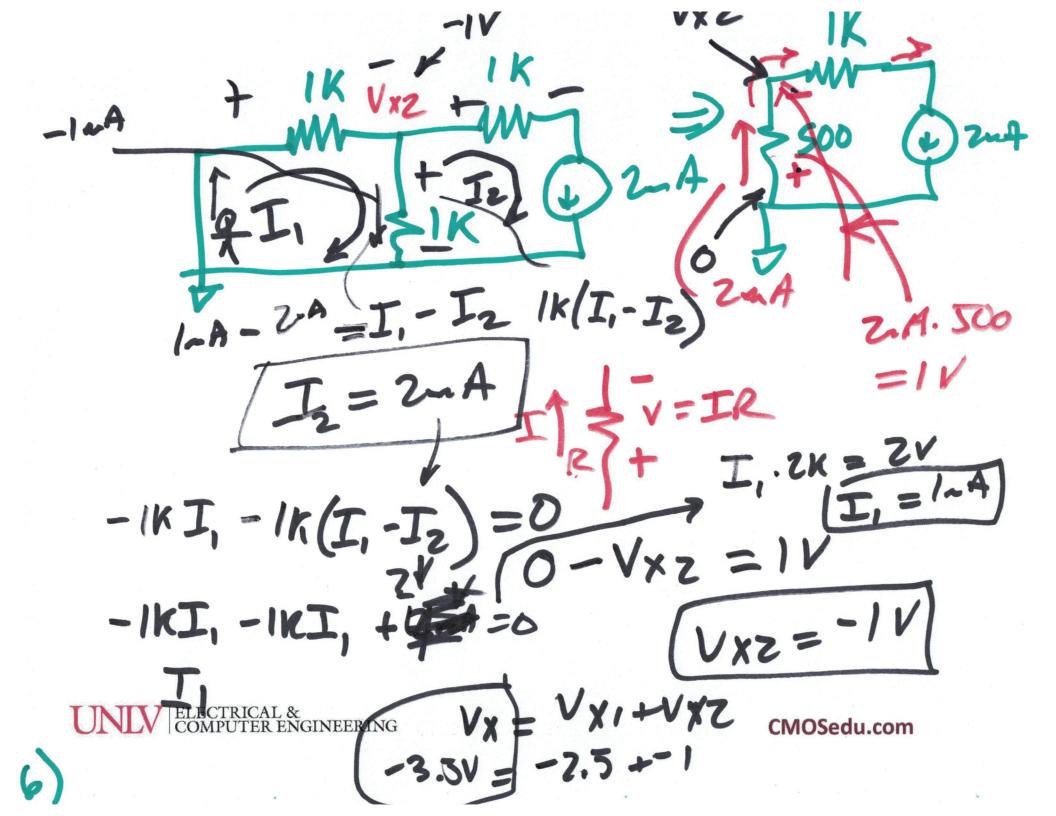
$$V4 = -14$$

$$V4 = -14$$

-3V - 3x.1-A = -3V + 3K.I + 3K.I = 06KI = 3 ELECTRICAL & COMPUTER ENGINEERING

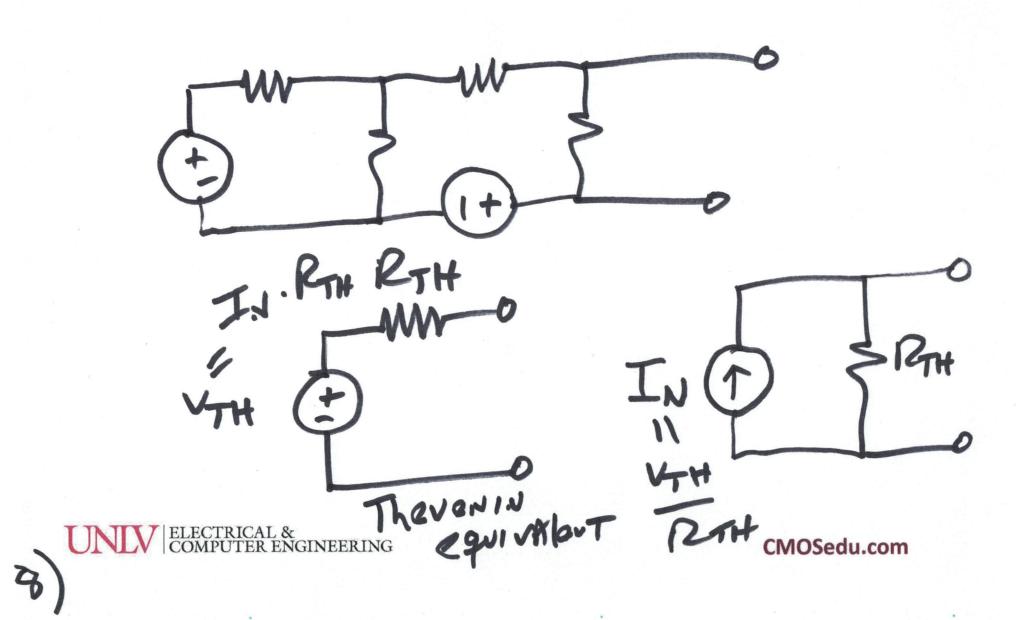
37

 $-5 - 1K \cdot I - |K \cdot I| = 0, I = -2.5$ A



Ohm's Law, Kirchhoff's voltage, law Kirchoffs curreent (an EKCL)
super mode Super mess CMOSedu.com

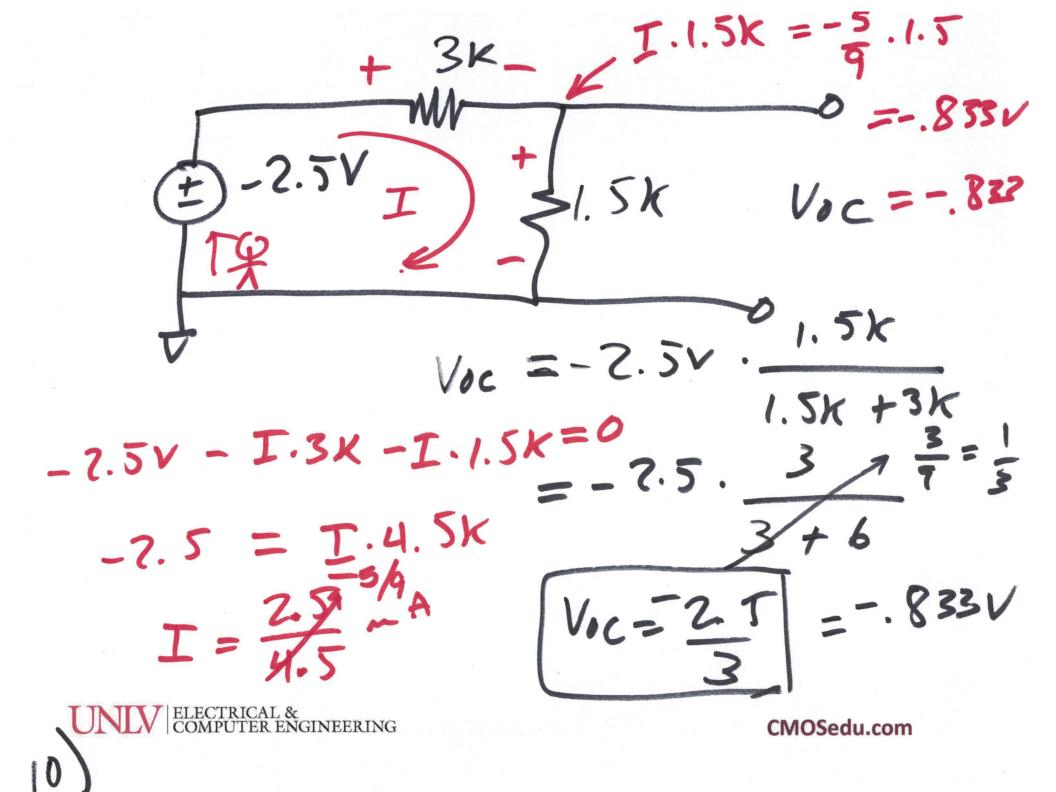
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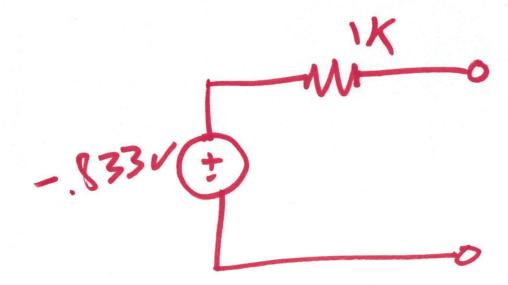


3 K

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