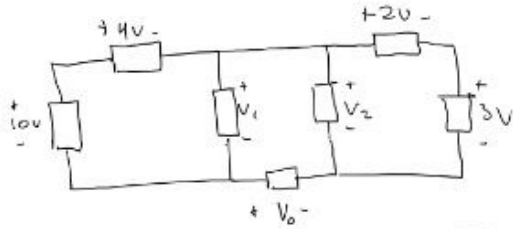
HW 3.0

Wednesday, January 29, 2020 2:53 PM

Question #9:



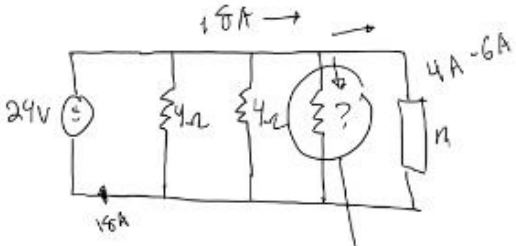
V_2: $2V + 3V - V_2 = 0$ ⇒ $5V = V_2$

V_1: $10V - 4V - V_1$ ⇒ $6V = V_1$

$V_o = V_1 - V_2$

$V_o = 1V$

Exercise 2:



$\frac{V}{R} = \frac{IR}{R}$

$\frac{V}{R} = I$

Bypasses the 1st & second resistor

$18 - \frac{24}{2} = 6A$

$18 - \frac{24}{1.714} = 4A$

Range of Ω from: 2Ω to 1.714Ω