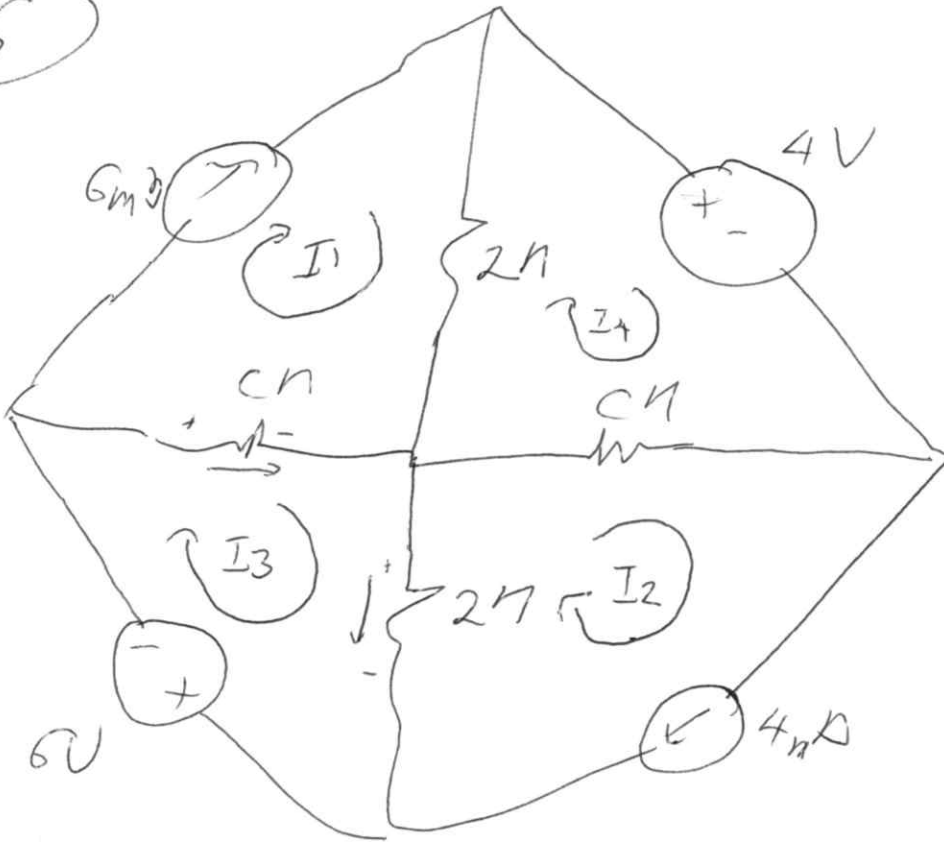


6



$$I_1 = 6\text{mA}$$

$$I_2 = 4\text{mA}$$

$$\text{loop 3: } -6V - C(I_3 - I_1) - 2(I_3 - I_2) = 0$$

$$-(C+2)I_3 + 6C + 8 = 6$$

$$-(C+2)I_3 = -6C - 2$$

$$I_3 = \frac{6C+2}{C+2}$$

$$V_x = (I_3 - I_2) 2\Omega$$

$$= (2\Omega)I_3 - 8V$$

$$= 2I_3 - 8$$

$$= \frac{12C+4}{C+2} - 8$$