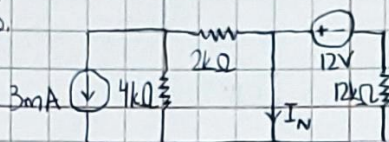
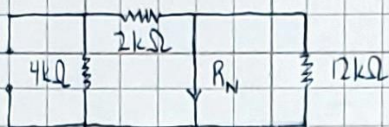


5. Same as #2

6.



$$I = 12V / 12k\Omega = 1mA \therefore I_N = 2mA$$



$$R_N = \frac{(4+2)(12)}{4+2+12} = 4k\Omega$$

