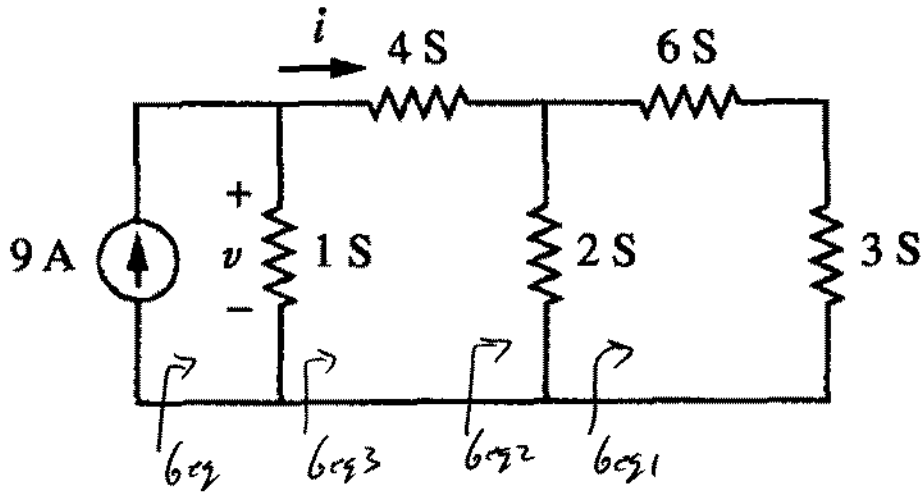


2.33 Obtain v and i in the circuit.Also determine G_{eq} 

$$G_{eq1} = \left[\frac{1}{6} + \frac{1}{3} \right]^{-1} = 2 \text{ S}$$

$$G_{eq2} = 2 + 2 = 4 \text{ S}$$

$$G_{eq3} = \left[\frac{1}{4} + \frac{1}{4} \right]^{-1} = 2 \text{ S}$$

$$G_{eq} = 1 + 2 = \underline{\underline{3 \text{ (S)}}}$$

$$V = \frac{9 \text{ A}}{G_{eq}} = \frac{9 \text{ A}}{3 \text{ S}} = \underline{\underline{3 \text{ V}}}$$

$$i = V G_{eq3} = 3(2) = \underline{\underline{6 \text{ A}}}$$