HW#3 Solutions eif ejer

kcl@e: 10-er + 0-er - er-e1 = 0

$$\frac{0-e}{6} + \frac{3-e}{6} + \frac{3-e}{3} - 2 = 0$$

$$\Rightarrow e = -\frac{3}{4}V$$

 $\Rightarrow i = 3 - (-\frac{3}{4}V) = 0.65 (A)$

$$\frac{0.e}{6} + \frac{0.e}{3} + 2 + \frac{0.(e-3)}{6} = 0$$

$$\Rightarrow e = \frac{15}{4}(v) \Rightarrow 1' = \frac{14}{4} = 0.625(A)$$

(2) Suppression:

C₁ from Voltage Soure:

$$6\frac{2}{3}$$
 $\frac{2}{6}$ $\frac{2}{6}$ $\frac{3}{6}$ $\frac{3}{6}$

So: e=e,+e2= + +3 = 3.75(v) 7 = Son = 37 (A)

Kel @ super node:

$$\frac{5-e}{8k} + \frac{0-e}{8k} + \frac{0-(e-1)}{0-4k} + 25MA = 0$$

e, from votige soure:

er from Current soure: