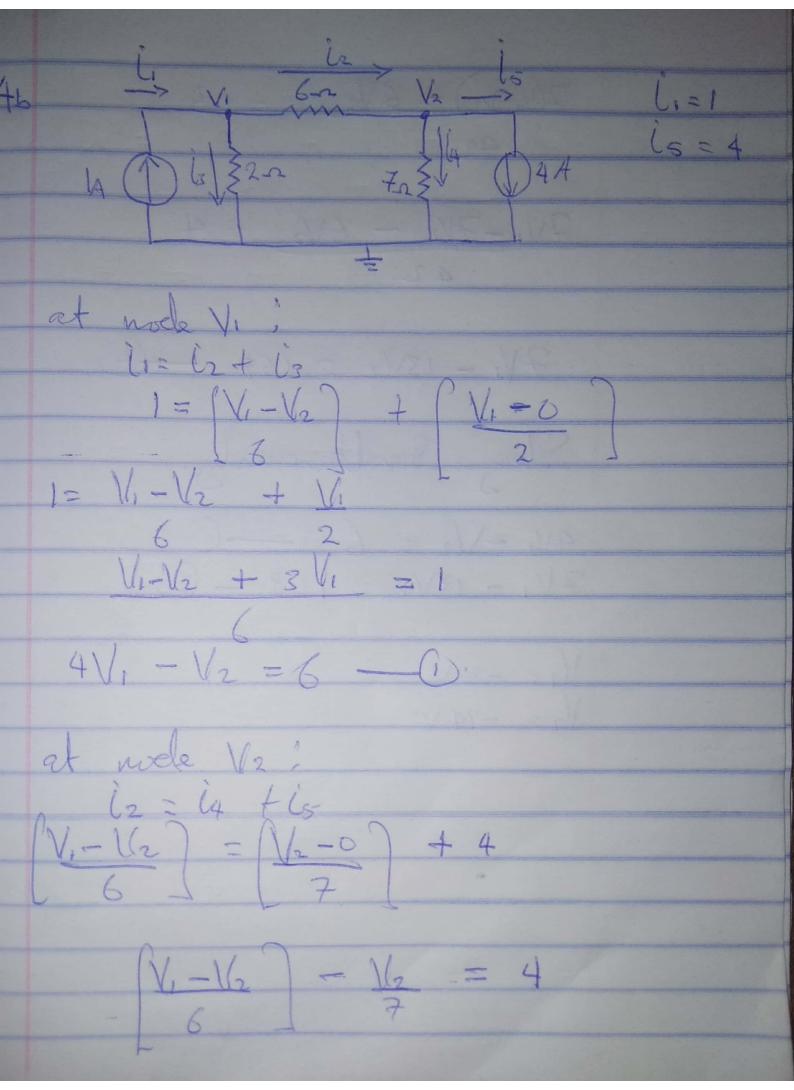


12: 5 V2 - 8 V1 18 5/2-8V1=120 -- C at node V2; i. i. + iz = is + i4 1.12+6= V2-V1+ (V2-0) 18 = V2 - V1 + V2 18 = 2 (V2-V1) + V2 = 21/2-21/11/2 18=31/2-2VI 72= 3 /h - 2/1 - 3 V2 - 2 V1 = 72 Solving Simultaneously 542 - 841 = 120 -(2) 3V2 - 2V1 = 72

Scanned by CamScanner

V=0v, V2= 24v Current is thowing through the 20 $i_3 = \frac{V_2 - V_1}{2} = \frac{24 - 0}{2}$ C3= 12 Ay Current flowing through the 42 resistor; $i_{H} = V_{2} - 0 = 24 - 0 = 6A_{H}$ Since Voltage at mode Us = 0; hence consent flowing through tessite 5 or and 10 or resistant = 0, (is \$ is = 0)



7(4-2) - 6 /2 = 4 74-712-612=4 71. - 13/2 = 168 - 3 Salving Symultaneously; 441-1/2=6-B 741-13/2=168-2 V1= -20 16 = -14 V Current flowing though the 600 resisting i2: V1-V2 = -2-(-14) Cr= 12 = 2A11

Current Rowing through the 20 resister;

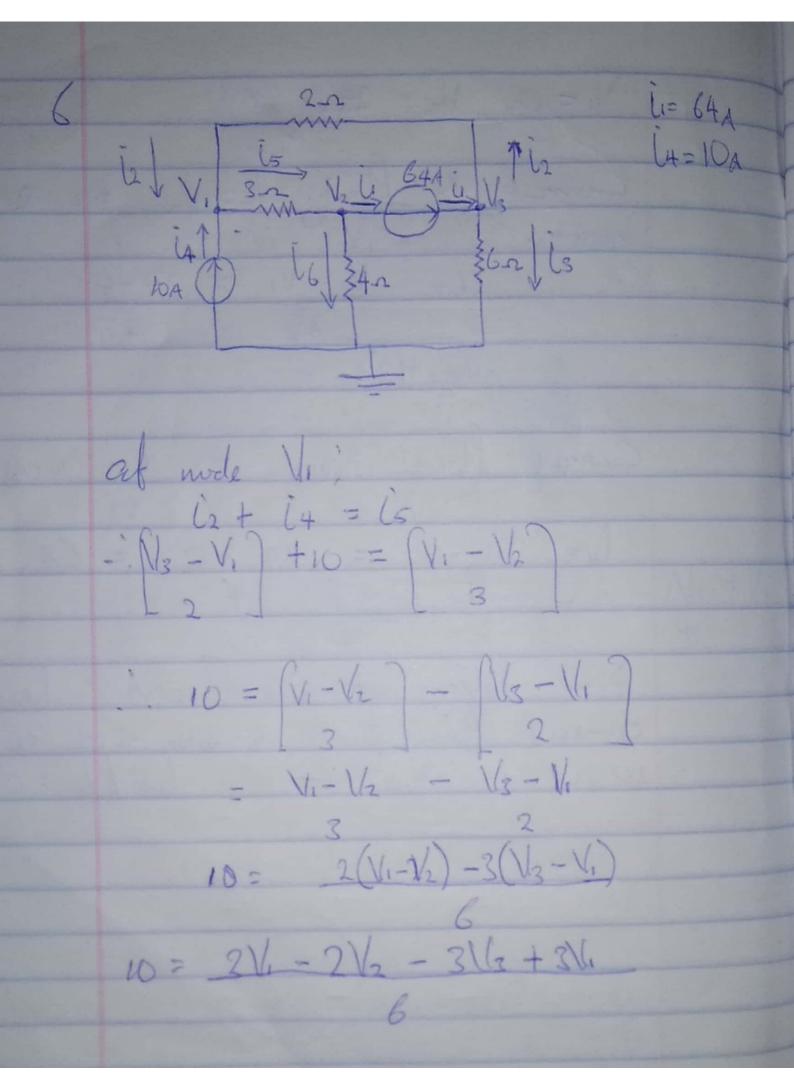
is = 1/4 - 0 = -2

is = -1/4

Current flowing through the For resister;

i = 1/2 - 0 2 - 14

i = 1/2 - 0 2 - 14



60=5V,-2V2-3Ve 5 Vi-21/2-3 V3=00-0 mole Ve L5 = 4+ 66 V1-1/2 = 64 + (V2-0) 64 = V1-1/2 - V2 64= 4(1-1/2) - 3/E 64 = 4 /4 - 4 /2 - 3 /2 768 = 4 V1 - 71/2 44, -71/2 = 768 - @ at nocle Ve (1= 12+ ls : 64 = N3-V1) + N5-0] 2

$$64 = \sqrt{3} - \sqrt{1} + \sqrt{3}$$

$$64 = 3(\sqrt{3} - \sqrt{1}) + \sqrt{3}$$

$$64 = 3\sqrt{3} - 3\sqrt{1} + \sqrt{3} = 4\sqrt{3} - 3\sqrt{1}$$

$$6$$

$$384 = -3\sqrt{1} + 4\sqrt{3} = 384 - 3$$

$$8duing 8imultaneously$$

$$5\sqrt{1} - 2\sqrt{2} - 3\sqrt{3} = 50 - 0$$

$$4\sqrt{1} - 7\sqrt{2} + 0 = 768 - 2$$

$$-3\sqrt{1} + 0 + 4\sqrt{3} = 384 - 3$$

$$... V_1 = 80\sqrt{1}, \sqrt{2} = -64\sqrt{1}, \sqrt{3} = 156\sqrt{1}$$

$$... V_1 = 80\sqrt{1}, \sqrt{2} = -64\sqrt{1}, \sqrt{3} = 156\sqrt{1}$$