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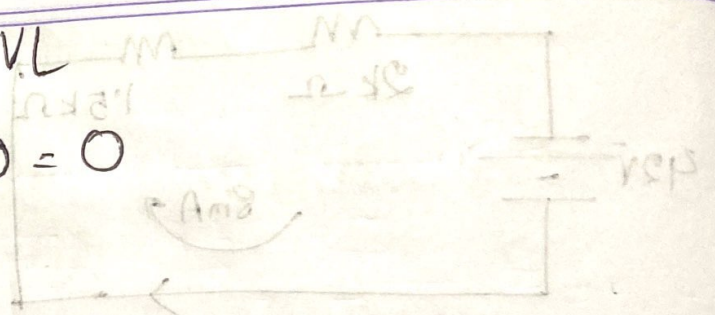
Section : 08      Course Code : EEE 141



21. (a) Here Applying KVL

$$60 - 12 - V - 20 = 0$$

$$\therefore V = 28V$$



(b) Here, Applying KVL

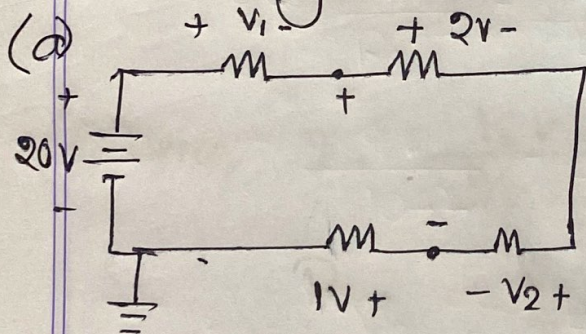
$$V + 18 - 14 - 6 - 2 = 0$$

$$\therefore V = 4 = 0$$

$$\therefore V = 4$$

Ans

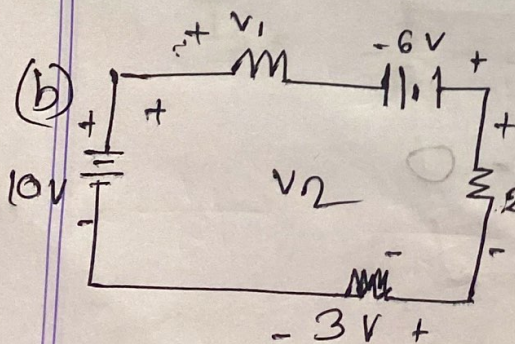
22 Using KVL, Find the unknown voltage



Applying KVL

$$+20V - V_1 - 10V - V_2 = 0$$

$$V_1 = 9V$$



$$\text{and, } 10V - 2V - V_2 = 0$$

$$\therefore V_2 = 8V$$

Again,

$$10V - V_1 + 6V + 2V - 3V = 0$$

$$\therefore V_1 = 11V$$

Again,

$$10V - V_2 - 3V = 0 \therefore V_2 = 7V$$