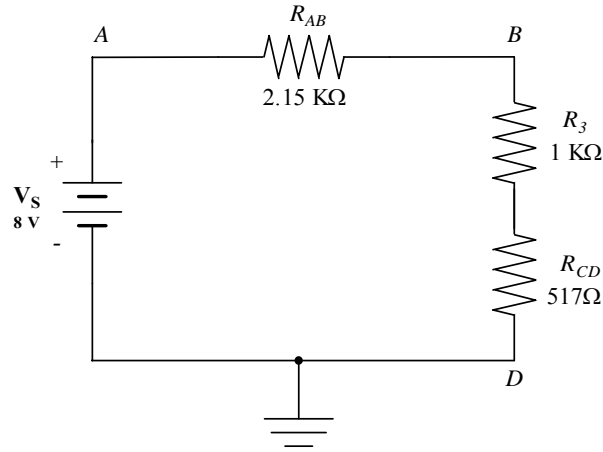وبالتالي فإن الدائرة تصبح كالتالي:

شكل (٣ – ١٠)

$$R_t = R_{AB} + R_3 + R_{CD}$$

$$R_t = 2.15k\Omega + 1k\Omega + 517\Omega$$

$$R_t = 3.6k\Omega$$

$$V_{AB} = \frac{R_{AB}}{R_t}V_S$$

$$V_{AB} = \frac{2.15K\Omega}{3.67K\Omega}8v$$

$$V_{AB} = 4.69v$$

$$V_{CD} = \frac{R_{CD}}{R_t}V_S$$

$$V_{CD} = \frac{517\Omega}{3.67K\Omega}8v$$

$$V_{CD} = 1.13v$$

$$V_{R3} = \frac{R_3}{R_t}V_S$$

$$V_{R3} = \frac{1K\Omega}{3.67K\Omega}8v$$

$$V_{R3} = 2.18v$$

$$V_{R1} = V_{R2} = V_{AB} = 4.69v$$

$$V_{R4} = V_{CD} = 1.13v$$

$$V_{R5} = \frac{R_5}{R_5 + R_6}V_{CD}$$