ECE 113: Basic Electronics Quiz-2

Duration: 25 Minutes   Total Points: 15

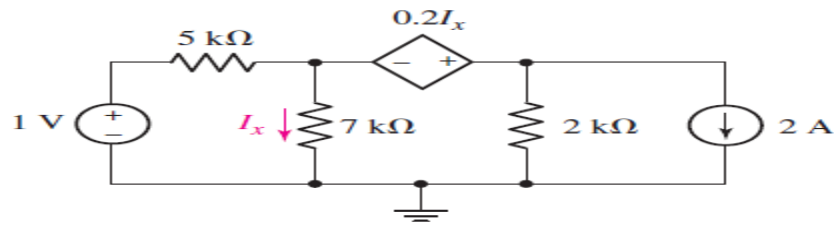**Question -1**: Find the value of current (I_x) by using superposition theorem in Figure-1.   **(5 Points)**

Figure 1

Question -2: Find Thevenin voltage (V_{th}) & Norton current (I_N) across point 'A' & 'B'.   **(2 Points)**
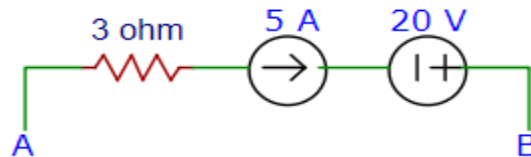

Figure 2

Question -3: Find current (I) flow into 4 ohm resistor by using following data given below-   **(3 Points)**

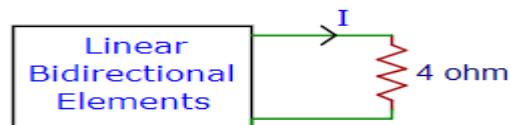| V (across 4 ohm resistor)	60	0
I (through 4 ohm resistor)	0	10

Table 1

Figure 3

Question -4: In the given below circuit (linear bidirectional) if the source voltage is increase by 10%, then find variation in power in R_5 resistor.   **(5 Points)**
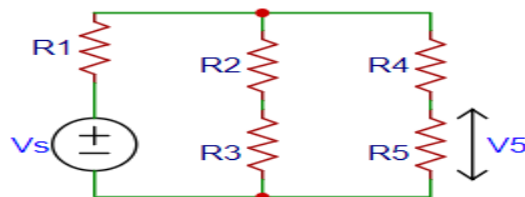

Figure 4