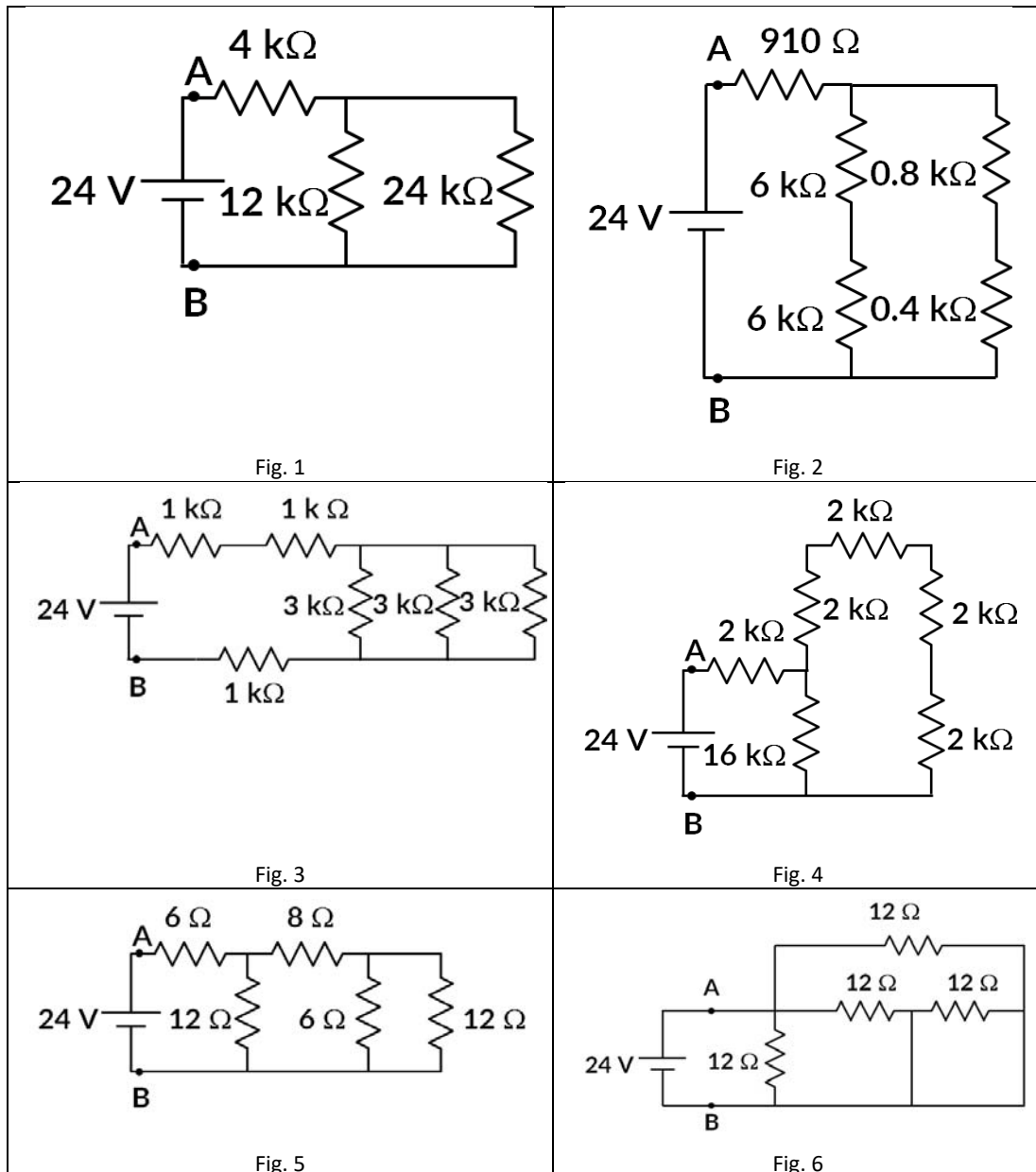


Department of ECE, Bennett University

EECE105L: Fundamentals of Electrical and Electronics Engineering

Tutorial Sheet-1

1. For the circuits shown in fig. 1 to fig. 6, find the equivalent resistance between nodes A and B. What is the current through the circuit and power delivered by the voltage source?



2. For the circuits shown in fig. 7 to fig. 9, find the equivalent resistance between nodes **A** and **B**. For the circuits in fig. 7 to fig. 9, each resistor has a resistance of **R**.

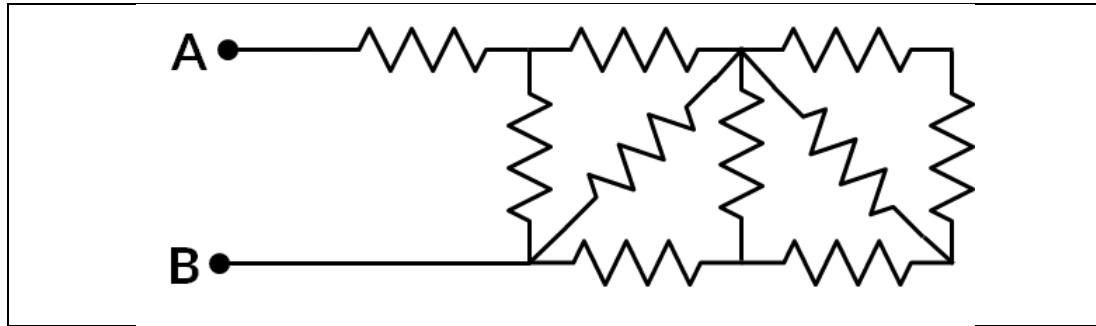


Fig. 7

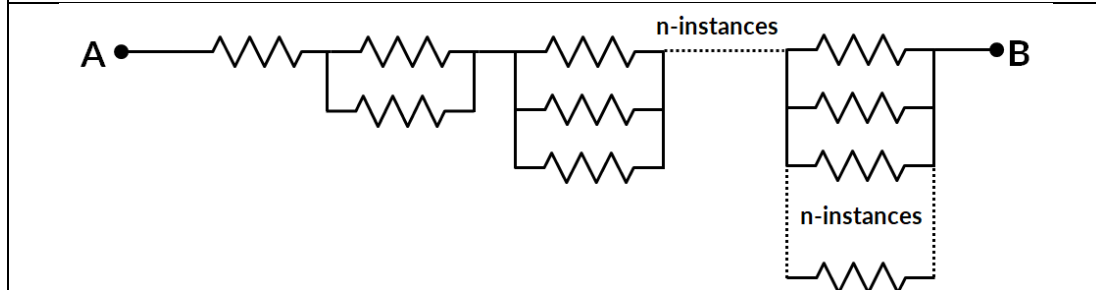


Fig. 8

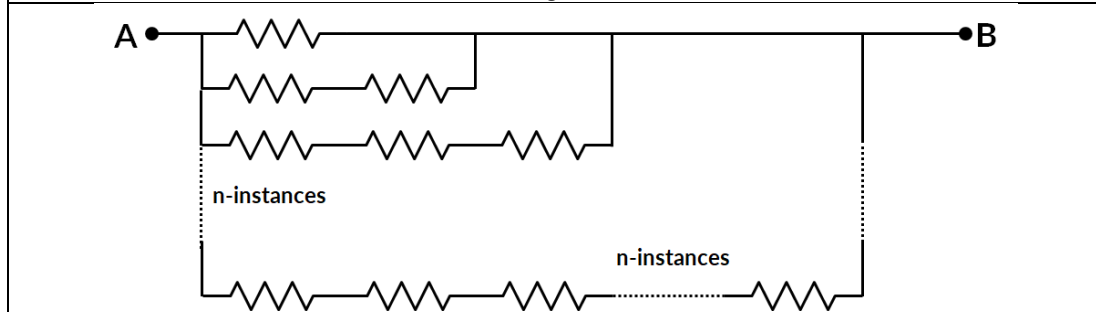


Fig. 9

----- END OF QUESTIONS -----

Answers:

Question 1:

	V	R	I	P
Fig. 1	24	12 k Ω	2 mA	48 mW
Fig. 2	24	2 k Ω	12 mA	288 mW
Fig. 3	24	4 k Ω	6 mA	144 mW
Fig. 4	24	7.3 k Ω	3.3 mA	79.2 mW

Fig. 5	24	$12\ \Omega$	2 A	48 W
Fig. 6	24	$4\ \Omega$	6 A	144 W

Question 2:

Fig. 7: $\frac{89}{55} RR$

Fig 8: ∞

Fig. 9: 0