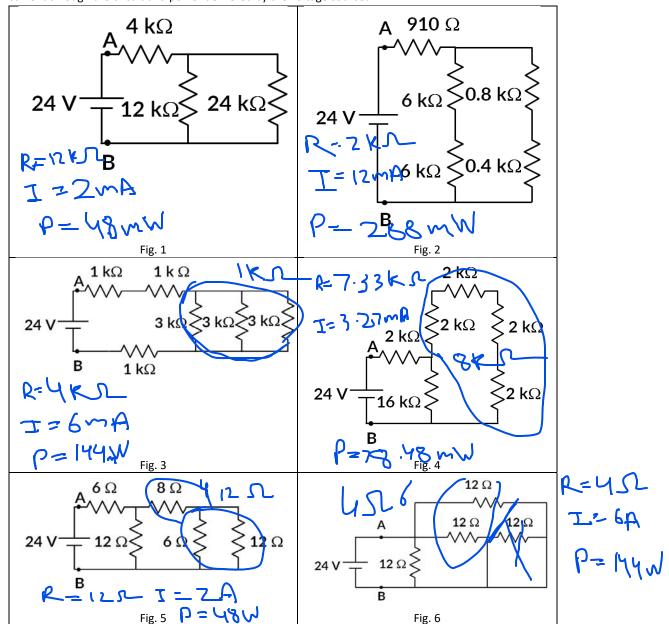


Department of ECE, Bennett University

EECE105L: Fundamentals of Electrical and Electronics Engineering

Tutorial Sheet-1

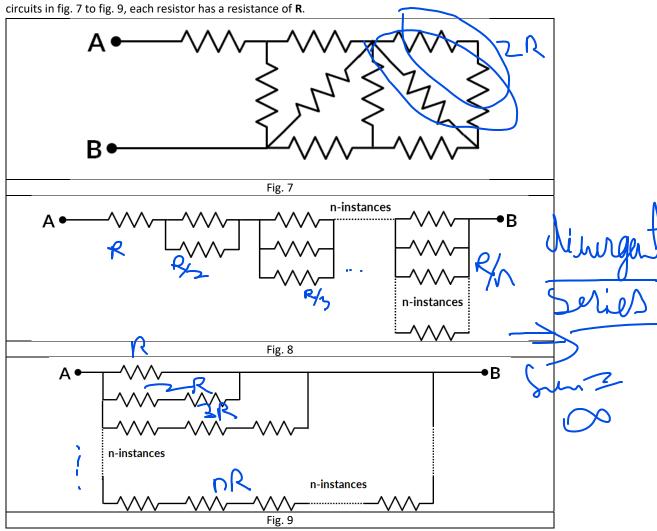
1. For the circuits shown in fig. 1 to fig. 6, find the equivalent resistance between nodes **A** and **B**. What is the current through the circuit and power delivered by the voltage source?







2. For the circuits shown in fig. 7 to fig. 9, find the equivalent resistance between nodes **A** and **B**. For the



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

Answers:

Question 1:

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



Fig. 5	24	12 Ω	2 A	48 W
Fig. 6	24	4 Ω	6 A	144 W

Question 2:

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

Fig 8: ∞

Fig. 9: 0