1. Find $R_{AB}$ in the circuit in Fig.

![Circuit Diagram 1](image1.png)

2. Find $R_{AB}$ in the network in Fig.

![Network Diagram 2](image2.png)

3. Find the equivalent resistance $R_{eq}$ in the network in Fig.

![Network Diagram 3](image3.png)

4. Find the equivalent resistance looking in at terminals a-b in the circuit in Fig.

![Circuit Diagram 4](image4.png)
5. Find $I_1$ and $V_o$ in the circuit in Fig.

![Image of circuit for finding $I_1$ and $V_o$]

6. Find $I_1$ and $V_o$ in the circuit in Fig.

![Image of circuit for finding $I_1$ and $V_o$]

7. Find $V_{ab}$ and $V_{dc}$ in the circuit in Fig.

![Image of circuit for finding $V_{ab}$ and $V_{dc}$]

8. Determine $I_0$ in the circuit in Fig.

![Image of circuit for determining $I_0$]

9. Determine $V_o$ in the network in Fig.

![Image of network for determining $V_o$]

10. Calculate $V_{ab}$ in Fig.

![Image of circuit for calculating $V_{ab}$]

11. Calculate $V_{AB}$ in Fig.

![Image of circuit for calculating $V_{AB}$]

12. Calculate $V_{ab}$ and $V_1$ in Fig.

![Image of circuit for calculating $V_{ab}$ and $V_1$]
13. Calculate $V_{AB}$ in Fig.

14. Calculate $V_{AB}$ and $I_1$ in Fig.

15. Calculate $V_{AB}$ and $I_1$ in Fig.

16. Find $V_{ab}$ in Fig.

17. In the network in Fig. P2.85, $V_0 = 6\, \text{V}$ Find $I_s$.

18. Find the value of $V_1$ in the network in Fig. such that $V_0 = 0$. 
19. In the network in Fig. $V_1 = 12 \, V$ Find $V_s$. 

20. Find the value of $I_A$ in the network in Fig.

21. Find the value of $I_A$ in the circuit in Fig.

22. Find the value of the current source $I_A$ in the network in Fig.

23. Find the value of $V_x$ in the network in Fig, such that the 5-A current source supplies 50 W.

24. The 5-A current source in Fig. supplies 150 W. Calculate $V_A$. 

25. Given $I_0 = 2\ mA$ in the circuit in Fig, find $I_A$.

![Diagram](image1)

26. Given $V_0$ in the network in Fig. P2.100, find $I_A$.

![Diagram](image2)

27. Given that $V_1 = 4\ V$, find $V_A$ and $R_B$ in the circuit in Fig.

![Diagram](image3)

28. Find the power supplied by the 24-V source in the circuit in Fig.

![Diagram](image4)

29. Find $I_0$ in the circuit in Fig.

![Diagram](image5)
30. Find $I_o$ in the circuit in Fig.

![Circuit Diagram with $I_o$](image)

31. Determine the value of $V_o$ in the network in Fig.

![Network Diagram with $V_o$](image)

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