1.
$$R 3R = R_{eq} = ?$$

$$\begin{array}{cccc}
R & 100R & R & R_{eq} = 6 \\
2. & - & - & - & - & - & - \\
\end{array}$$

3.
$$R \Longrightarrow R \equiv R_{eq=?}$$

4.
$$R \Longrightarrow 10R \equiv R_{eq} = ?$$

5.
$$R \Longrightarrow 2R \equiv R_{eq} = ?$$

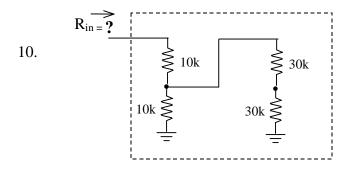
6.
$$R \rightleftharpoons 2R \rightleftharpoons 2R \equiv R_{eq}=?$$

7.
$$\frac{12 \text{ V}}{10 \text{k}}$$

$$V_{\text{out}} = 2$$

8. What is the name of the circuit in 7.?

9. What is the output impedance of the circuit in 7? (Hint: find the Thevenin model of the circuit)



11.
$$+5 \text{ V} \longrightarrow \text{W} \longrightarrow \text{a} \qquad \text{V}_{a=?}$$

$$-5 \text{ V} \longrightarrow \text{W} \longrightarrow \text{b}$$

12. Find the Thevenin equivalent circuit from 11, considering V_a as the Thevenin voltage.

14.
$$C = \frac{1}{10C} = \frac{1}{10C$$

15.
$$C = 5C = 2C = 2C = 7$$

16.
$$C$$
 10C $C_{ea} = ?$

$$17. \quad \begin{array}{c} L & 10L \\ \hline 100 & \end{array} \qquad \begin{array}{c} L_{\text{ea}} = ? \\ \hline \end{array}$$

18. L
$$=$$
 $=$ L_{ea} ;

19. If the Thevenin equivalent of circuit A is a 5 V source in series with a 800 k Ω resistor, and circuit B has an input impedance of 1 M Ω , what is V_a? Draw the equivalent circuits, and show how you arrive at your answer.

