1) Determine the equivalent Thevenin circuit for the circuits shown in figures 1 to 3. Note that in the case of figure 1, the equivalent circuit parameters should be determined in terms of $i_s$. 

Figure 1

Figure 2

Figure 3

Figure 4
2) Find the equivalent resistor $R_{in}$ seen from AB port for the circuit shown in figure 4.

3) Find the value of $v_o$ in the circuit shown in figure 5.
   
   *Hint: Use Super-Position Principle.*

![Figure 5](image1)

![Figure 6](image2)

4) Determine $v_1(t)$ and $v_2(t)$ for the circuit shown in fig. 6. The diode is ideal.

5) Exercise No.2, Figure 6-1, Page 97, Text Book.

*The Simulation Part (Computer Assignment) of this homework will be sent till the next week.*

Good Luck.
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