1.

\[ \begin{align*}
&\text{a)} \quad \text{Use the node-voltage method to find } v_1. \\
&\text{b)} \quad \text{Find the equivalent resistance for the 10}\Omega \text{ and } 15\Omega \text{ resistors in parallel. Then use the voltage divider formula to find } v_1. \text{ Verify that both (a) and (b) have the same answer.}
\end{align*} \]

2.

\[ \text{Use the node-voltage method to find a formula for } v_1. \text{ Write your answer as a sum of a voltage divider for } v_{s1} \text{ and a voltage divider for } v_{s2}. \]
3. Use the node-voltage method to find $v_1$ and $v_2$.

4. Choose a reference node and use the node-voltage method to the remaining node voltages.

5. Use the node-voltage method to find $v_1$ and $v_2$. 