Assignment 1

1. Using nodal analysis find $V_1$ (See diagram)

2. Using nodal analysis find $I_1$ (See diagram)

3. Common Base for Question 2 & 3

4. Using nodal analysis find $I_3$ (See diagram)

5. Using nodal analysis find $V_3$ (See diagram)

6. Determine the power supplied by $V_2$ by the $I_2$ source in the figure

7. Find $I_1$ (See diagram)

8. Find the value of $V_2$ for a power of $5W$ with respect to the potential of point $V_1$ in Volt with respect to point $V_2$ in Volt.

9. Find $I_1$ (See diagram)

10. Find the maximum power dissipated by $V_2$ if $V_1 = 10V$ and $I_2 = 2A$ (See diagram)