Name: **UIN:**
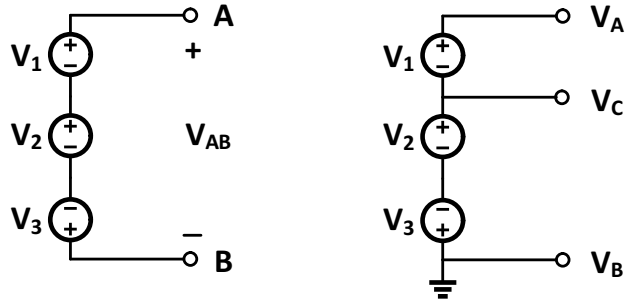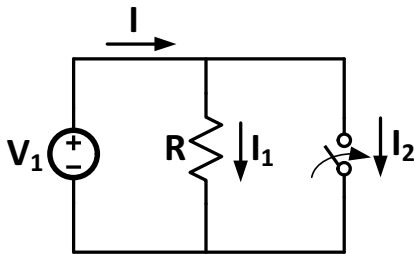
1. Compute voltage V_{AB}, V_A, V_B, and V_C in the circuits shown below. Assume $V_1 = 10V$, $V_2 = 5V$, and $V_3 = 6V$.

2. In the circuit shown below, current $I = 5mA$. Compute currents I_1 and I_2 when the switch is (a) open and (b) closed.

3. In the circuit shown below, $V_1 = 5V$, $R_1 = 2k\Omega$, $R_2 = 5k\Omega$, $R_3 = 3k\Omega$. Compute voltage V_{AB}.