








-  Computing known powers...
-  Calculating mismatch vector...
-  Forming Jacobian...
-  Setting initial guess (flat or non-flat)...
-  Starting Newton-Raphson iterations...
-  Power flow converged in 11 iterations.
-  Final Bus Voltages:
 - Bus 1: $|V| = 1.0000$ pu, $\angle = 0.00^\circ$
 - Bus 2: $|V| = 0.9985$ pu, $\angle = -5.53^\circ$
 - Bus 3: $|V| = 0.9670$ pu, $\angle = -22.10^\circ$
 - Bus 4: $|V| = 0.9823$ pu, $\angle = -19.56^\circ$
 - Bus 5: $|V| = 0.9990$ pu, $\angle = -15.31^\circ$
 - Bus 6: $|V| = 0.9919$ pu, $\angle = -15.96^\circ$
 - Bus 7: $|V| = 1.0000$ pu, $\angle = -12.69^\circ$