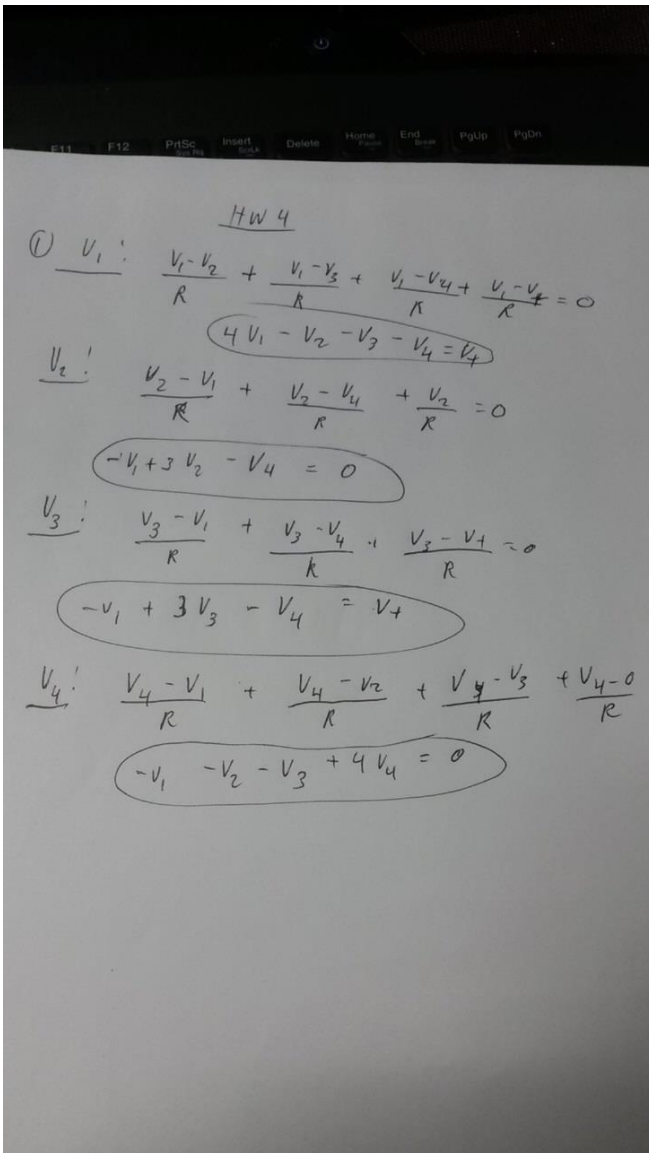
Problem 1:

A)



Above is the written solution to part A, simply solved the equations using Kirchoff's law.

B)

```
C:\Users\lab\Dropbox\Computational Physics\Computational-Physics-Python\Jinesh_H
W4>python -i Prob1.py
[3.0, 1.6666666666666665, 3.333333333333333, 2.0]
>>>
```

Above is the solution when using Gaussian elimination. The roots are 3, 1.67, 3.33, 2.0 for V1 through V4 respectively.