Michael Einreinhof

Homework Submission Template 4

Problem 1 Part c) Screenshot of array containing pH values in console.

```
[   0.        2.    ]
[   1.        3.0348]
[   2.     1133.2012]
[   3.     1293.8464]
[   4.     1378.1922]
[   5.     1418.1021]
[   6.     1436.055 ]
[   7.     1443.305 ]
[   8.     1450.555 ]
[   9.     1457.805 ]
[  10.     1465.055 ]
[  11.     1472.305 ]
[  12.     1479.555 ]
[  13.     1486.805 ]
[  14.     1494.055 ]
[  15.     1501.305 ]
[  16.     1508.555 ]
[  17.     1515.805 ]
[  18.     1523.055 ]
[  19.     1530.305 ]
[  20.     1537.555 ]
```

Problem 1 Part d) Screenshot of opened data file.

```
ml_base , pH_buffer
0,2.000
1,3.035
2,1133.201
3,1293.846
4,1378.192
5,1418.102
6,1436.055
7,1443.305
8,1450.555
9,1457.805
10,1465.055
11,1472.305
12,1479.555
13,1486.805
14,1494.055
15,1501.305
16,1508.555
17,1515.805
18,1523.055
19,1530.305
20,1537.555
```

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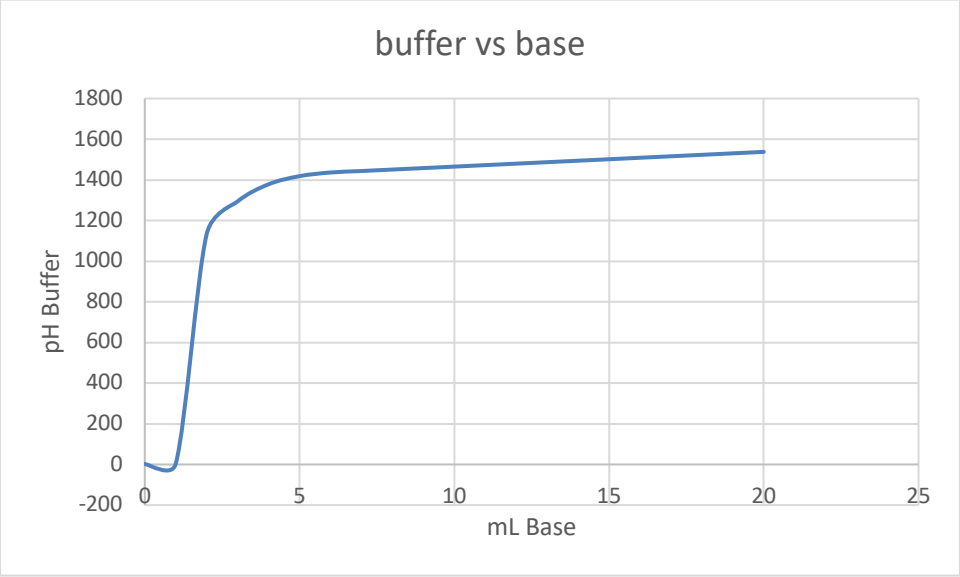
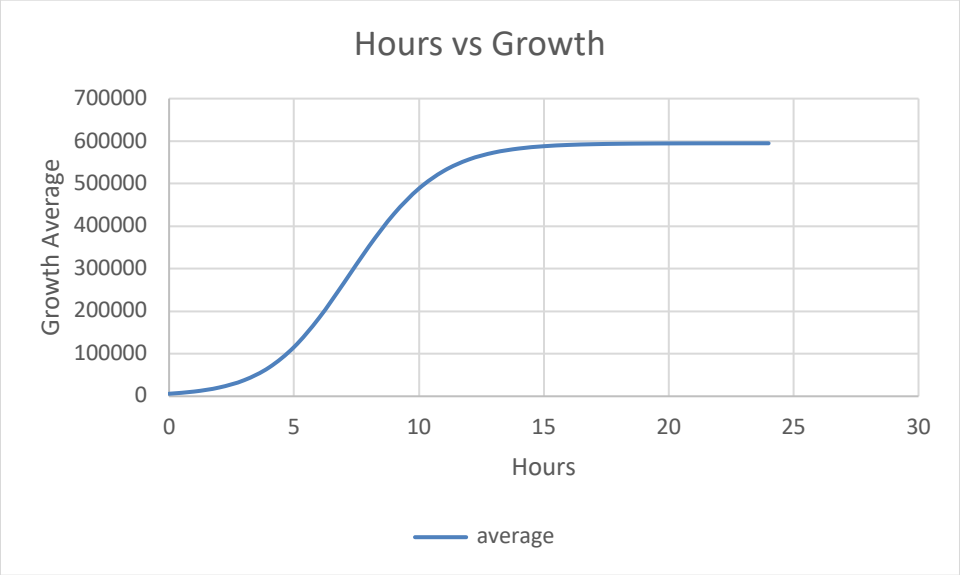
Problem 1 Part e) Plot for Buffer



Problem 2 Part c) Graph of average Bacteria Growth



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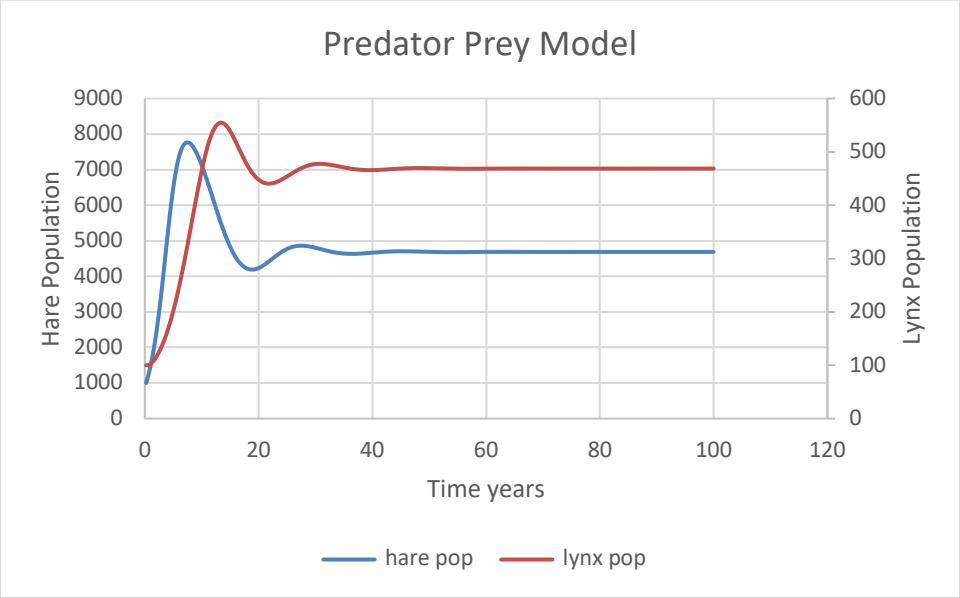
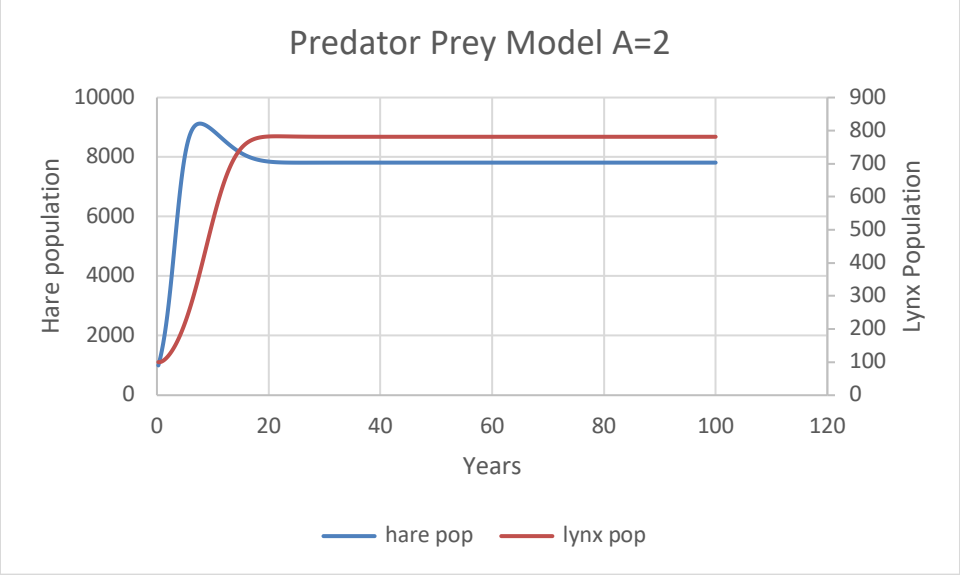
Problem 3 a) Graph A = 5



Problem 3 b) Graph of A = 2 4 6 8



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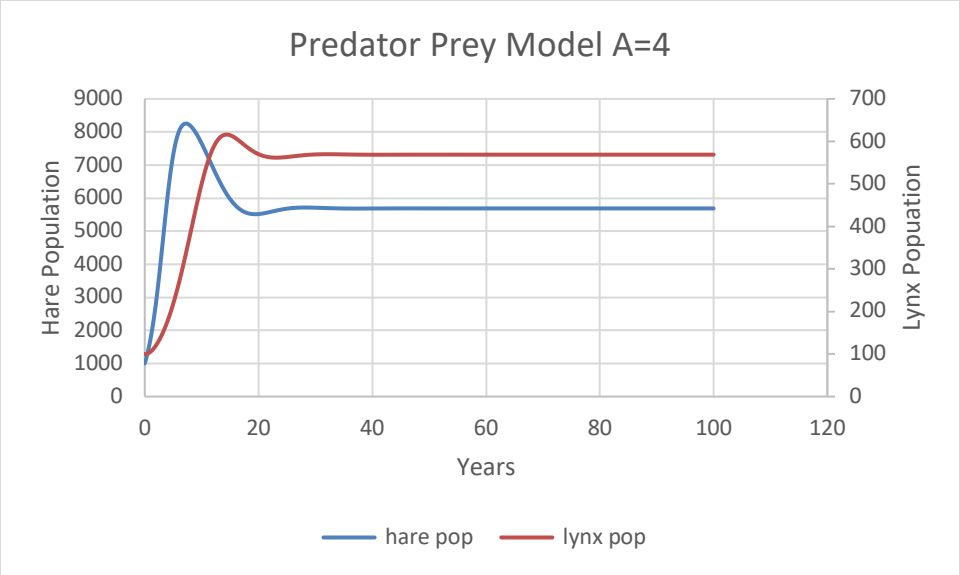

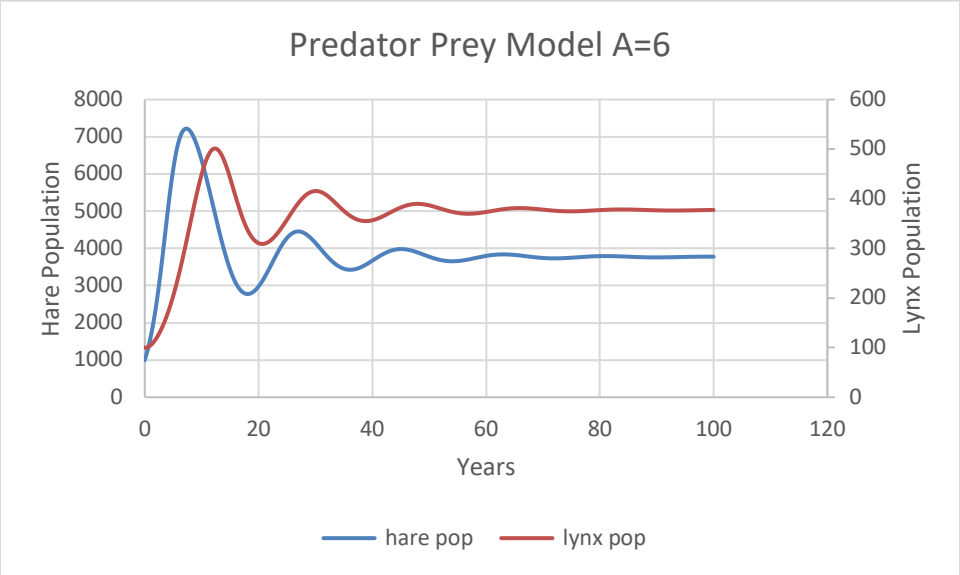

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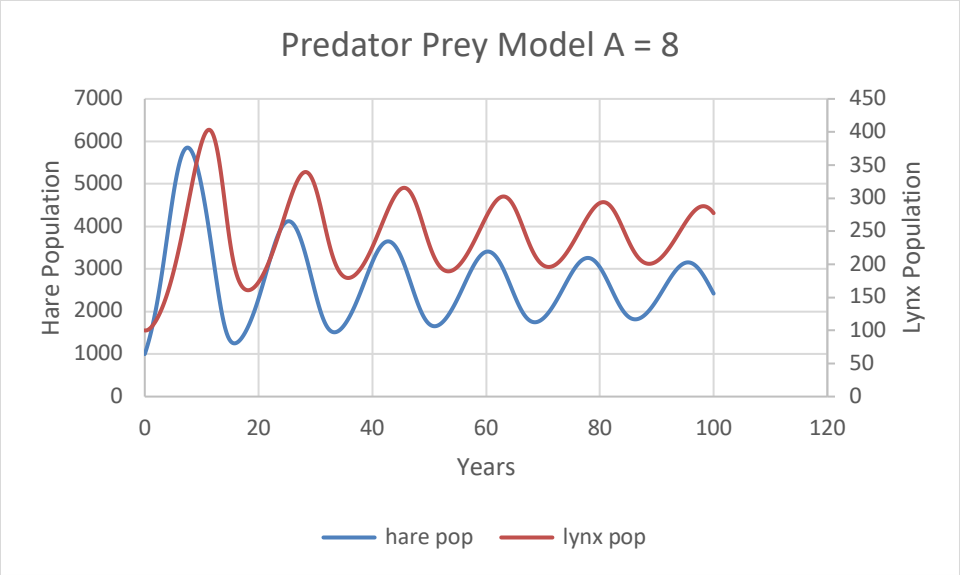

Problem 3 c) Graph with drought.