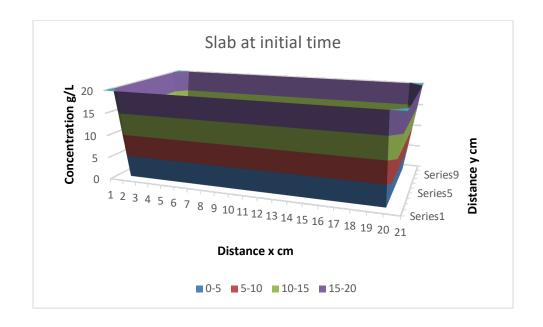
Homework 07 Submission Template

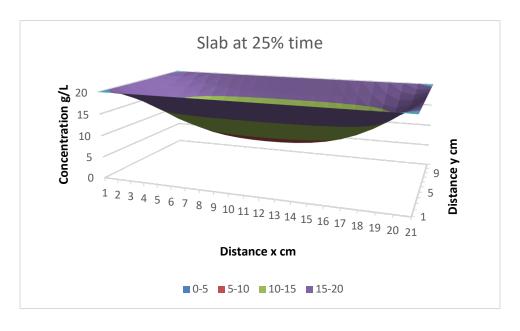
Problem 1) How many days does it take for the center to reach 19 g/l? 99.9 days

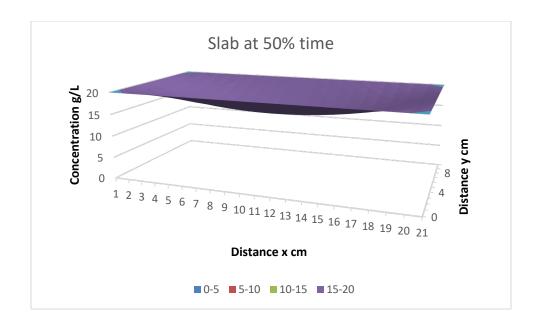
Screenshot of text file or comma delimitated file with time above each agar glucose concentration.

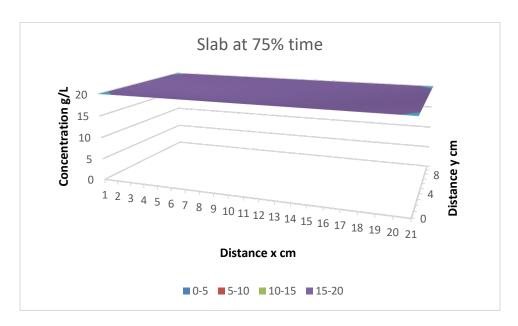
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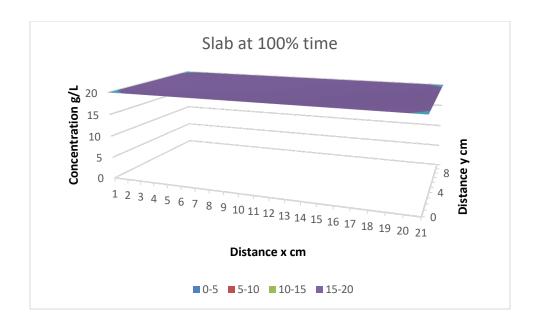
Problem 1) 3D plot of slab at initial 25% 50% 75% and final time intervals











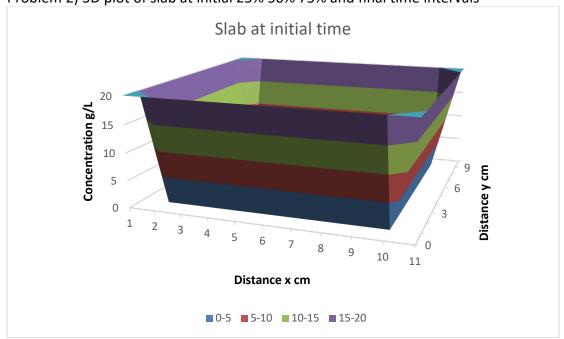
Problem 2) How many days does it take for the center to reach 19 g/l?

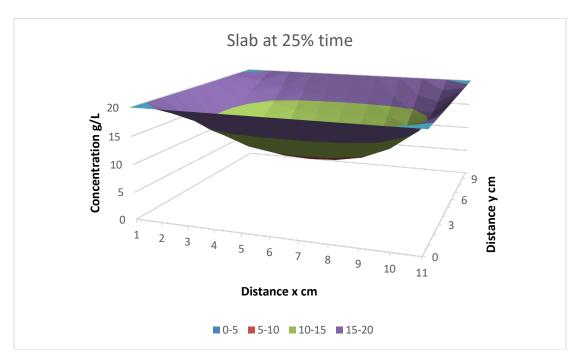
99.8 days

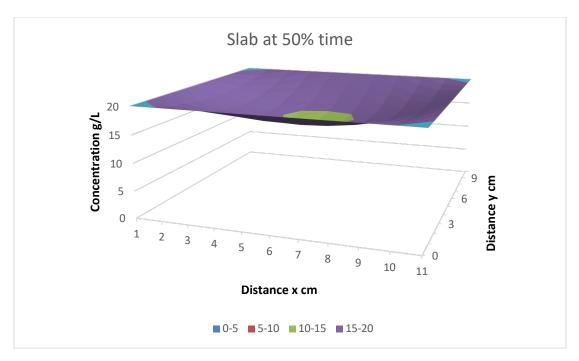
Screenshot of text file or comma delimitated file with time above each agar glucose concentration.

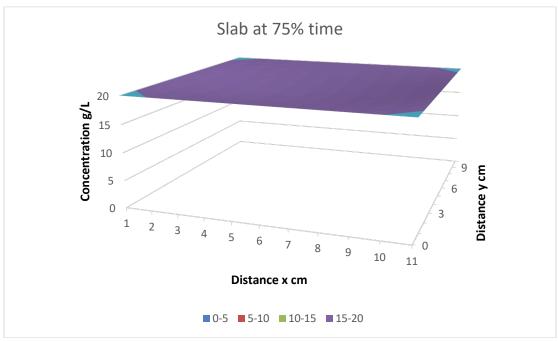
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Problem 2
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20.0000,20.0000,20.0000,20.0000,20.0000,20.0000,20.0000,20.0000,20.0000,20.0000,20.0000
```

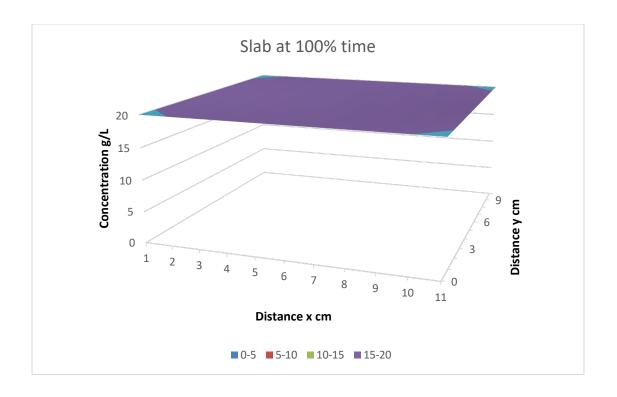




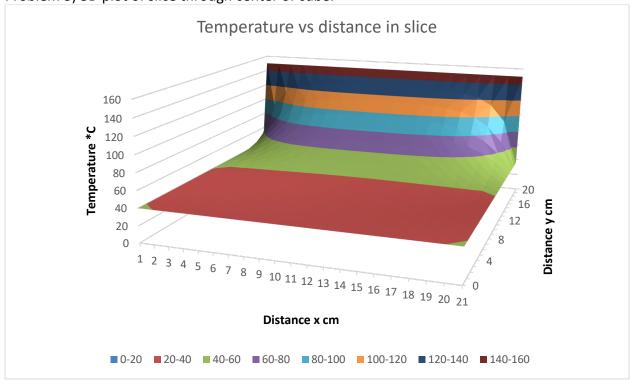






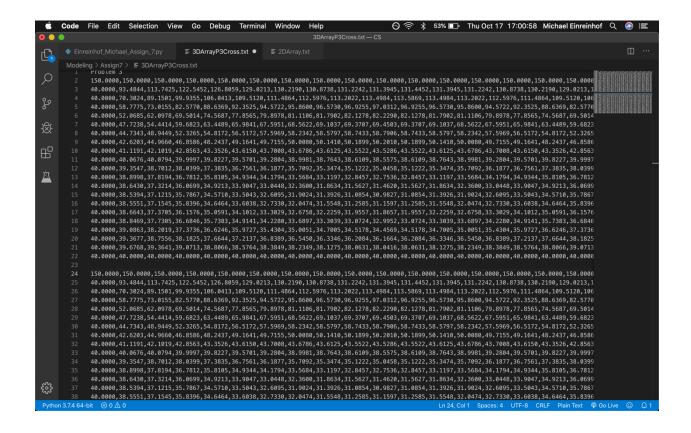






Screen shot of plane through cube data file

Both left and right

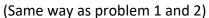


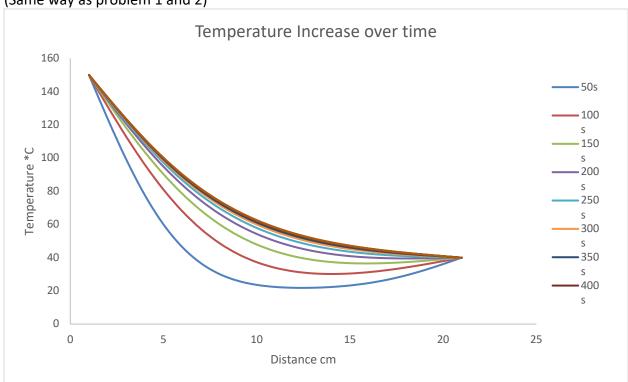
Problem 3) How long does it take for the center of the cube to reach 38°C 105

Is there an equilibrium temperature at the center? How long does it take to get within 0.1 C of this?

Yes - 571.0s

Plot the temperature profile of the cube in **ONE** of the following ways.





Screen shot of data file.

17	Problem 3a		1	2	3	4	5	 11	 17	18	19	20	21
18	Time:	50s	150	123.7264	99.1448	77.6224	59.9815	 22.3613	 26.6939	29.3092	32.4939	36.1242	40
19	Time:	100s	150	131.0526	112.8339	95.9771	80.9516	 33.8782	 32.504	34.0791	35.909	37.911	40
20	Time:	150s	150	133.8063	118.154	103.5135	90.2364	 43.7963	 36.761	37.3134	38.0889	39.0089	40
21	Time:	200s	150	135.0871	120.6571	107.127	94.804	 49.949	 39.6727	39.5173	39.5674	39.7509	40
22	Time:	250s	150	135.7417	121.9428	108.9982	97.1958	 53.53	 41.5225	40.9274	40.518	40.2293	40
23	Time:	300s	150	136.0928	122.6342	110.0086	98.4946	 55.5856	 42.6443	41.7873	41.1	40.5229	40
24	Time:	350s	150	136.2864	123.0158	110.5676	99.2153	 56.7621	 43.3072	42.2971	41.4459	40.6977	40
25	Time:	400s	150	136.3947	123.2295	110.8811	99.6202	 57.4349	 43.6932	42.5945	41.648	40.7999	40
26	Time:	450s	150	136.4559	123.3503	111.0583	99.8494	 57.8196	 43.9163	42.7666	41.765	40.8591	40
27	Time:	500s	150	136.4906	123.4189	111.1591	99.9797	 58.0396	 44.0446	42.8656	41.8324	40.8931	40
28	Time:	550s	150	136.5104	123.458	111.2164	100.054	 58.1654	 44.1182	42.9224	41.871	40.9127	40
29	Time:	571s	150	136.5159	123.4689	111.2325	100.0747	 58.2005	 44.1388	42.9383	41.8819	40.9182	40