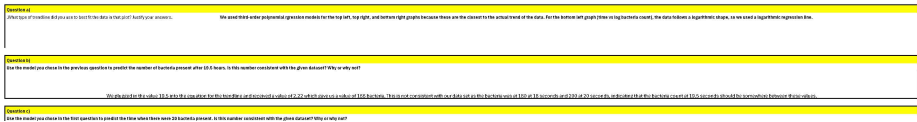


**Academic Integrity Statement:** I/We have not used material obtained from any other unauthorized source, neither modified or tampered. Neither have I/we provided answers to anyone such to another. Our solution I/we are submitting is my/our own original work.

Case 3	
Legend Title	Legend Name/Content
Legend 1	Legend 1
Legend 2	Legend 2
Legend 3	Legend 3
Legend 4	Legend 4
Legend 5	Legend 5
Legend 6	Legend 6
Legend 7	Legend 7
Legend 8	Legend 8
Legend 9	Legend 9
Legend 10	Legend 10
Legend 11	Legend 11
Legend 12	Legend 12
Legend 13	Legend 13
Legend 14	Legend 14
Legend 15	Legend 15
Legend 16	Legend 16
Legend 17	Legend 17
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Legend 19	Legend 19
Legend 20	Legend 20
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Legend 96	Legend 96
Legend 97	Legend 97
Legend 98	Legend 98
Legend 99	Legend 99
Legend 100	Legend 100


$$\log(20) = .67298 \log(e) = .6133$$

This is consistent because in the data, between 2 and 4 hrs there was 15 and 25 bacteria count respectively. Since 20 is between three and 2,7988 hrs is also between the data is consistent with the calculation.