size(log10(n))	time(log10(t))[sec]	size	time(sec):actual
3	-1.823908741	1000	0.015
3.301029996	-1.283996656	2000	0.052
3.602059991	-0.709965389	4000	0.195
3.903089987	-0.096910013	8000	0.8
4.204119983	0.506910726	16000	3.213

Power Law Equation: T(n) = a N^b -> 10^-7.68 N^1.9429 = 2.08 x 10^-8N^1.9429

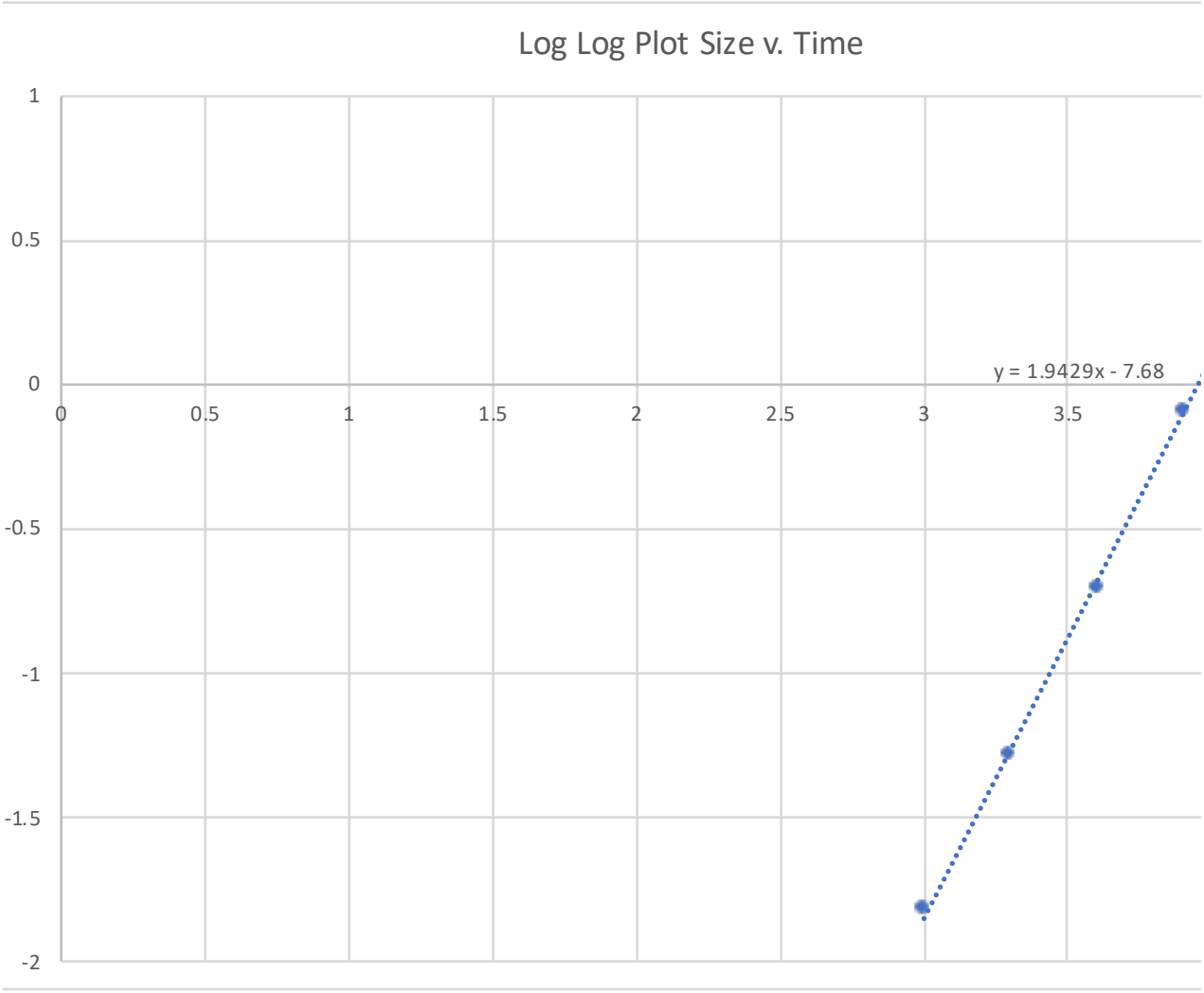
time(sec)	Ratio	Log 2
0.015	3.466666667	1.793549123
0.052	3.75	1.906890596
0.195	4.102564103	2.03652587602511
0.8	4.01625	2.00584907569669
3.213	4.077497666	2.027684051

n	t(seconds)
16,000	3.195
16,000	3.22
16,000	3.197

Constant Estimate:
t(16,000) = a x N^b
a = 3.204/16,000^3 = .0078 x 10^-10

t(1,000,000)= .0078 x 10^-10 x 1,000,000^2.03 = 1.18

time(sec) estimate
0.014
0.054
0.208
0.8
3.077




4
4.5