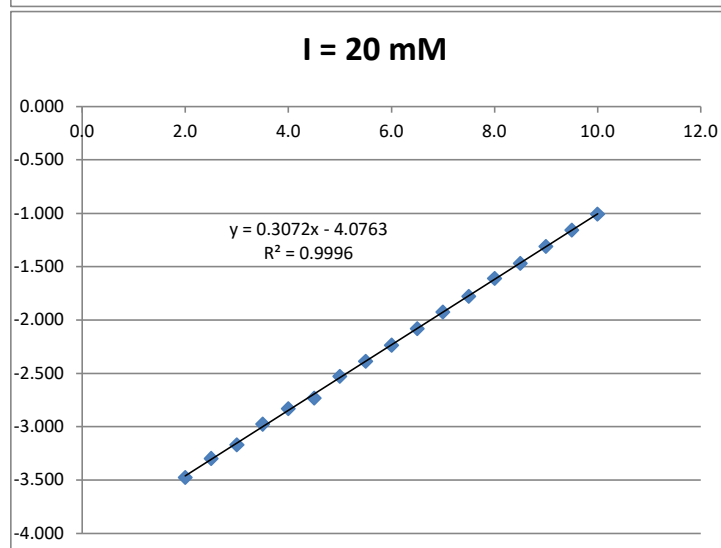
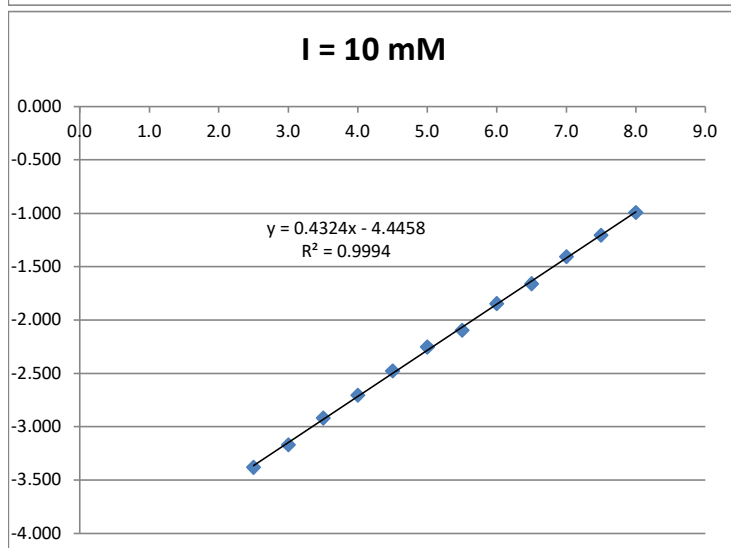
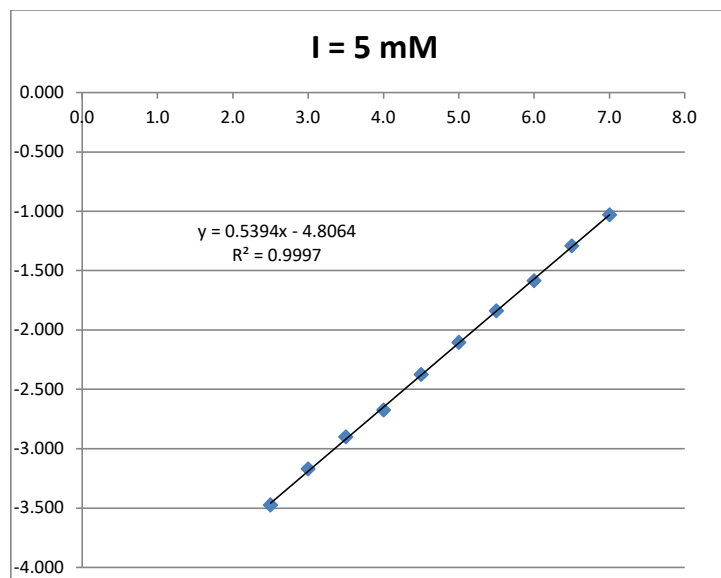
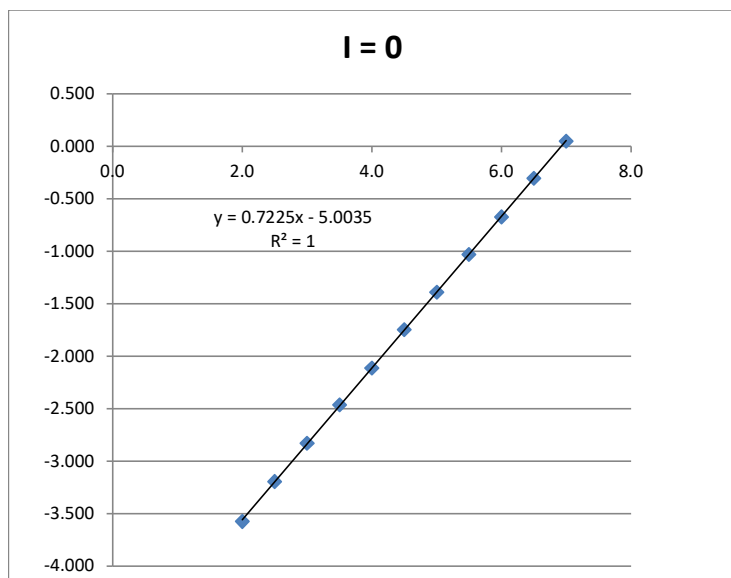


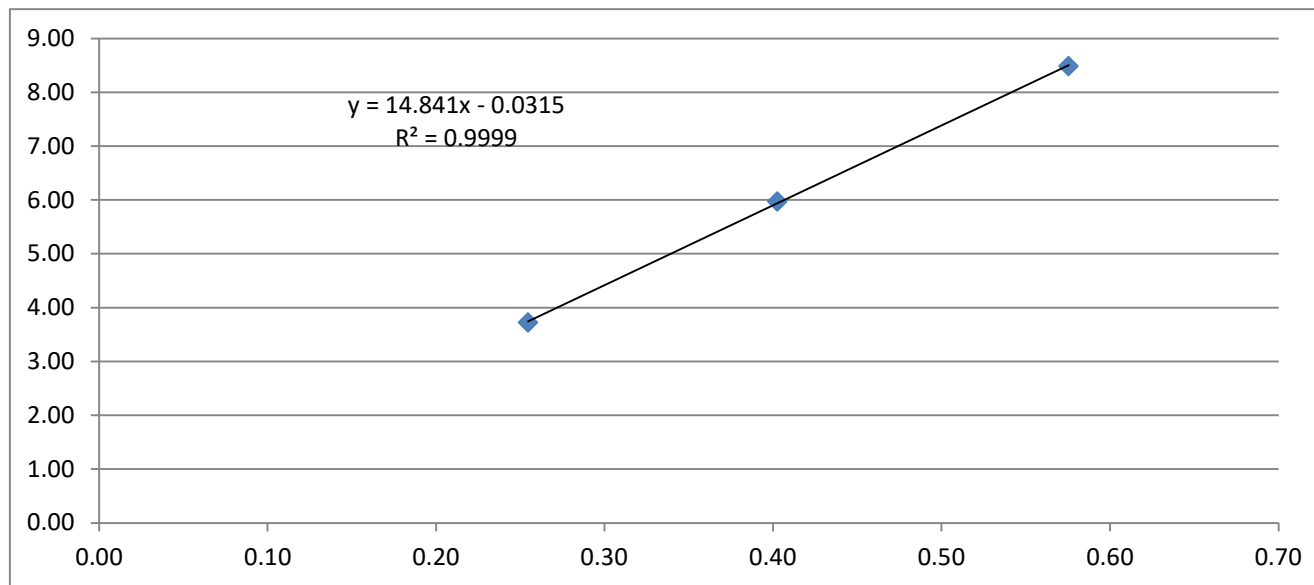
	I = 0			I = 5 mM			I = 10 mM			I = 20 mM		
time	X	ln(X)		X	ln(X)		X	ln(X)		X	ln(X)	
0.0	0.017	-4.075		0.017	-4.075		0.018	-4.017		0.021	-3.863	
0.5	0.018	-4.017		0.018	-4.017		0.019	-3.963		0.022	-3.817	
1.0	0.019	-3.963		0.019	-3.963		0.022	-3.817		0.024	-3.730	
1.5	0.022	-3.817		0.021	-3.863		0.023	-3.772		0.027	-3.612	
2.0	0.028	-3.576	<-- Linear Region -->	0.024	-3.730		0.028	-3.576		0.031	-3.474	<-- Linear Region -->
2.5	0.041	-3.194		0.031	-3.474		0.034	-3.381		0.037	-3.297	
3.0	0.059	-2.830		0.042	-3.170		0.042	-3.170		0.042	-3.170	
3.5	0.085	-2.465		0.055	-2.900		0.054	-2.919		0.051	-2.976	
4.0	0.121	-2.112		0.069	-2.674		0.067	-2.703		0.059	-2.830	
4.5	0.174	-1.749		0.093	-2.375		0.084	-2.477		0.065	-2.733	
5.0	0.249	-1.390		0.122	-2.104		0.105	-2.254		0.080	-2.526	
5.5	0.357	-1.030		0.159	-1.839		0.123	-2.096		0.092	-2.386	
6.0	0.510	-0.673		0.205	-1.585		0.158	-1.845		0.107	-2.235	
6.5	0.737	-0.305		0.275	-1.291		0.190	-1.661		0.125	-2.079	
7.0	1.049	0.048	0.357	-1.030		0.245	-1.406		0.146	-1.924		
7.5	1.250	0.223		0.410	-0.892		0.300	-1.204		0.169	-1.778	
8.0	1.440	0.365		0.446	-0.807		0.371	-0.992		0.200	-1.609	
8.5							0.450	-0.799		0.230	-1.470	
9.0							0.480	-0.734		0.270	-1.309	
9.5							0.485	-0.724		0.315	-1.155	
10.0										0.365	-1.008	
10.5										0.410	-0.892	
11.0										0.044	-3.124	



I (mM)	m (h ⁻¹)	t ₀ (h)	t ₀ (min)
0	0.723	0.96	57.5
5	0.539	1.29	77.2
10	0.432	1.60	96.3
20	0.307	2.26	135.5

Cell Growth Problem 1A

I (mM)	μ	doubling time (minutes)	R	1-R	I*R	1-R
0	0.723	57.5				
5	0.539	77.2	0.75	0.25	3.73	0.25
10	0.432	96.3	0.60	0.40	5.98	0.40
20	0.307	135.5	0.42	0.58	8.49	0.58



$K_i = 14.8 \text{ mM}$