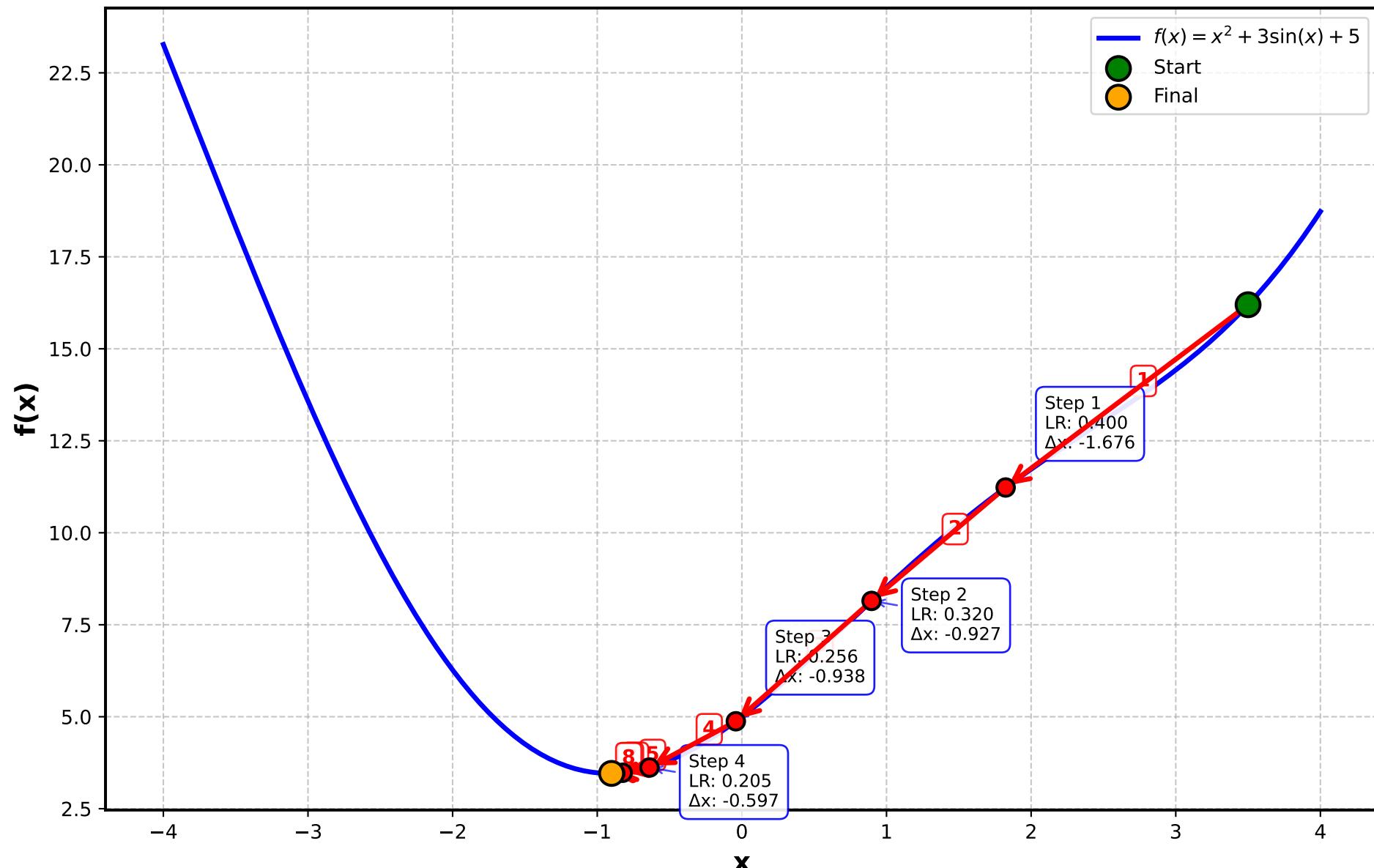
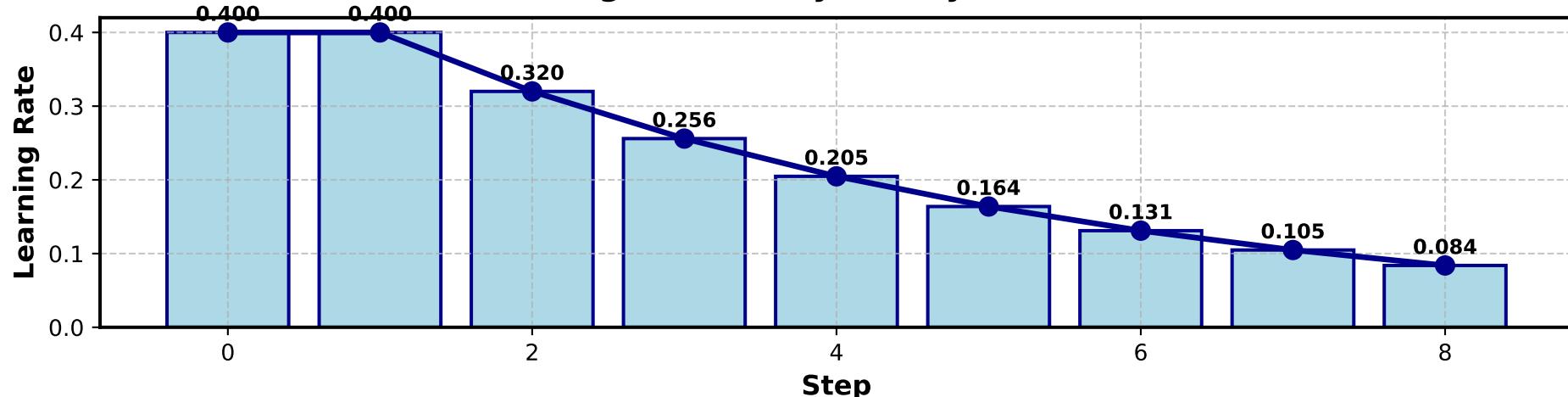


Gradient Descent with Decreasing Learning Rate



Learning Rate Decay (Decay Factor = 0.8)



Step	x_t	x_{t+1}	$\nabla f(x)$	LR	Δx
1	3.5000	1.8237	4.1906	0.4000	-1.6763
2	1.8237	0.8968	2.8967	0.3200	-0.9269
3	0.8968	-0.0417	3.6659	0.2560	-0.9385
4	-0.0417	-0.6385	2.9140	0.2048	-0.5968
5	-0.6385	-0.8240	1.1321	0.1638	-0.1855
6	-0.8240	-0.8751	0.3901	0.1311	-0.0511
7	-0.8751	-0.8932	0.1726	0.1049	-0.0181
8	-0.8932	-0.9011	0.0944	0.0839	-0.0079