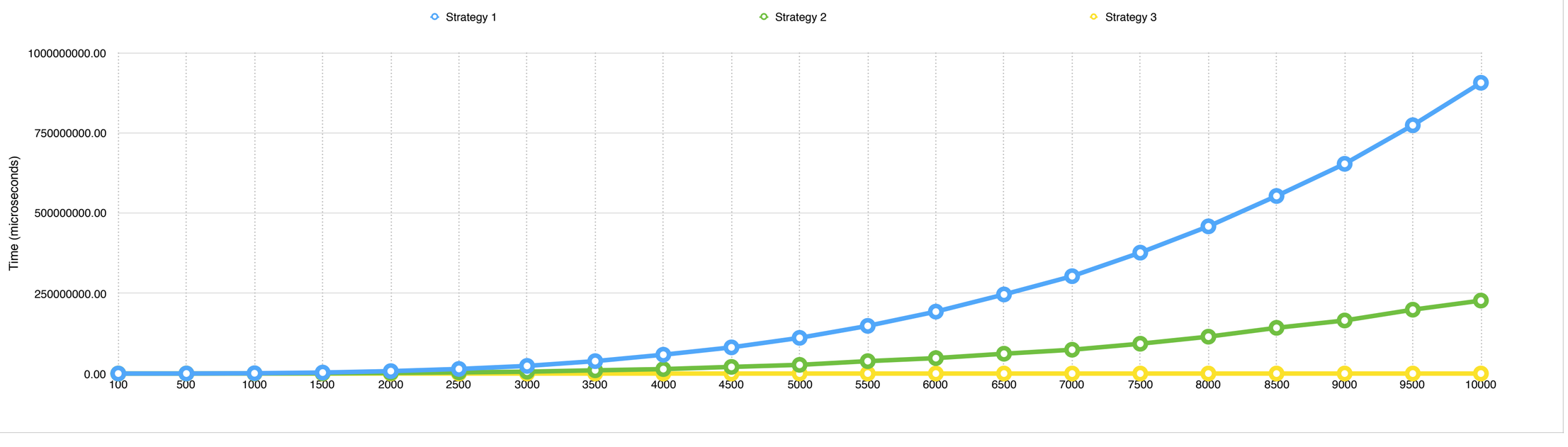
Strategy Analysis

	100	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000
Strategy 1	1078.00	106570.00	824681.00	3076137.00	7539485.00	14302282.00	23772165.00	38689812.00	58708986.00	81653325.00	111333450.00	148637635.00	193118154.00	246647266.00	303639434.00	377106028.00	459102276.00	553858484.00	654090578.00	774563653.00	906928851.00
Strategy 2	199.00	28286.00	238359.00	694493.00	1972358.00	3634524.00	5827999.00	10081976.00	13873280.00	20700874.00	27084668.00	38674814.00	48112816.00	61806162.00	74237256.00	92986242.00	114990858.00	142609231.00	165488788.00	199141784.00	227548321.00
Strategy 3	2.03	12.20	19.58	20.13	22.52	26.06	31.72	36.67	41.63	50.32	67.79	71.74	72.62	72.01	81.99	89.10	92.10	97.97	99.59	121.27	115.81



Strategy 1

	100	500	1000	1500	2000	2500	3000	3500	4000	4500	5000
1/2 * (76*n^3 - 119*n^2 + 47*n + 8)	37407354	4735136754	37940523504	128116160254	303762047004	593378183754	1025464570504	1628521207254	2431048094004	3461545230754	4748512617504
	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000	
1/2 * (76*n^3 - 119*n^2 + 47*n + 8)	6320450254254	8205858141004	10433236277754	13031084664504	16027903301254	19452192188004	23332451324754	27697180711504	32574880348254	37994050235004	

2.15
3.41437500261492
5.09696146746419
7.25751279974823
9.95578240466746
13.2515236874223
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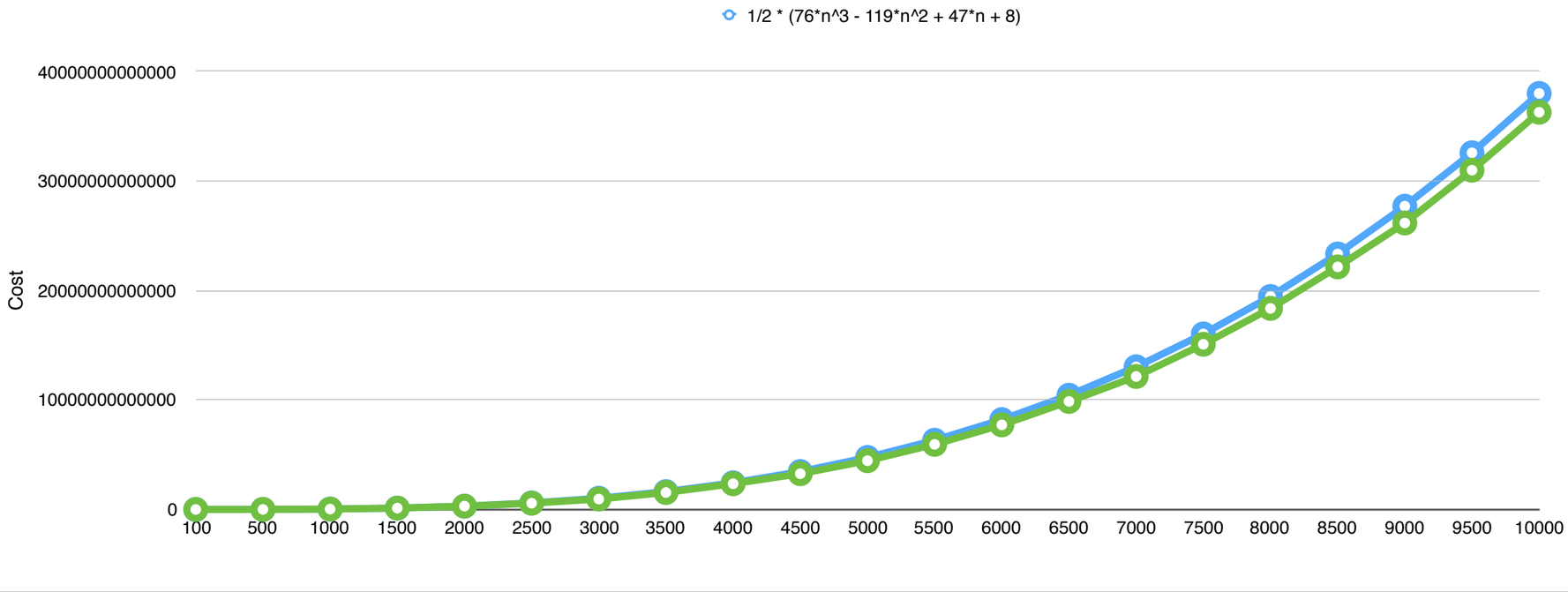
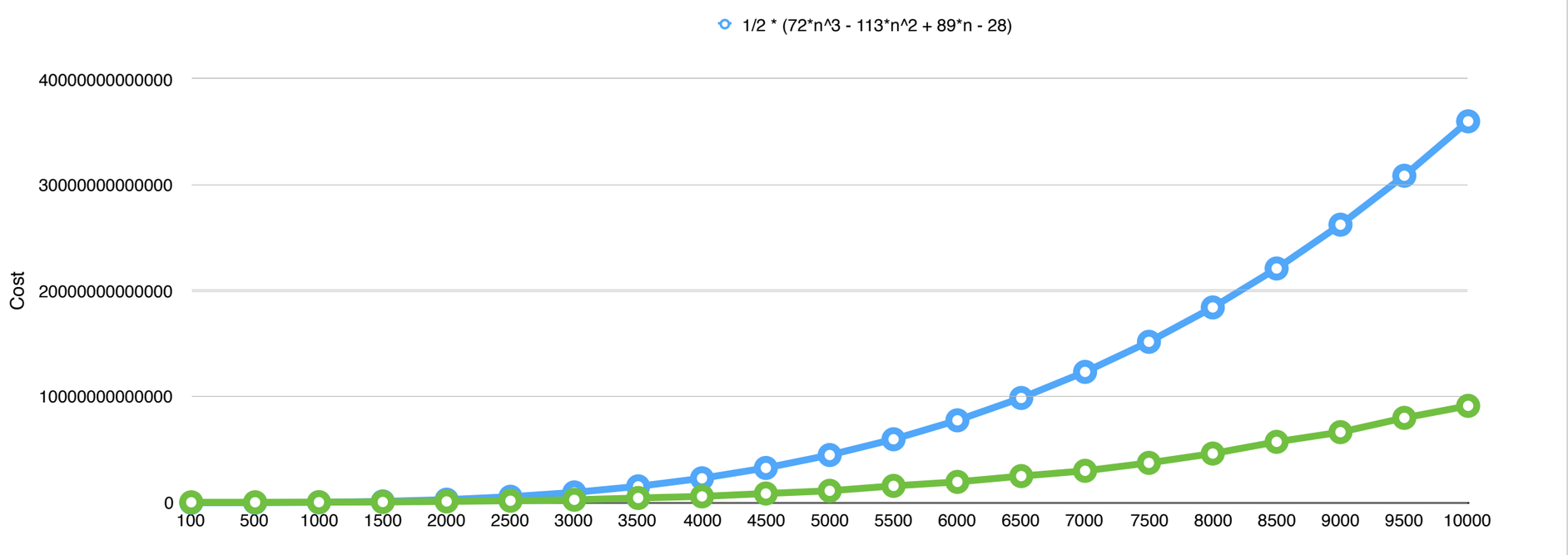


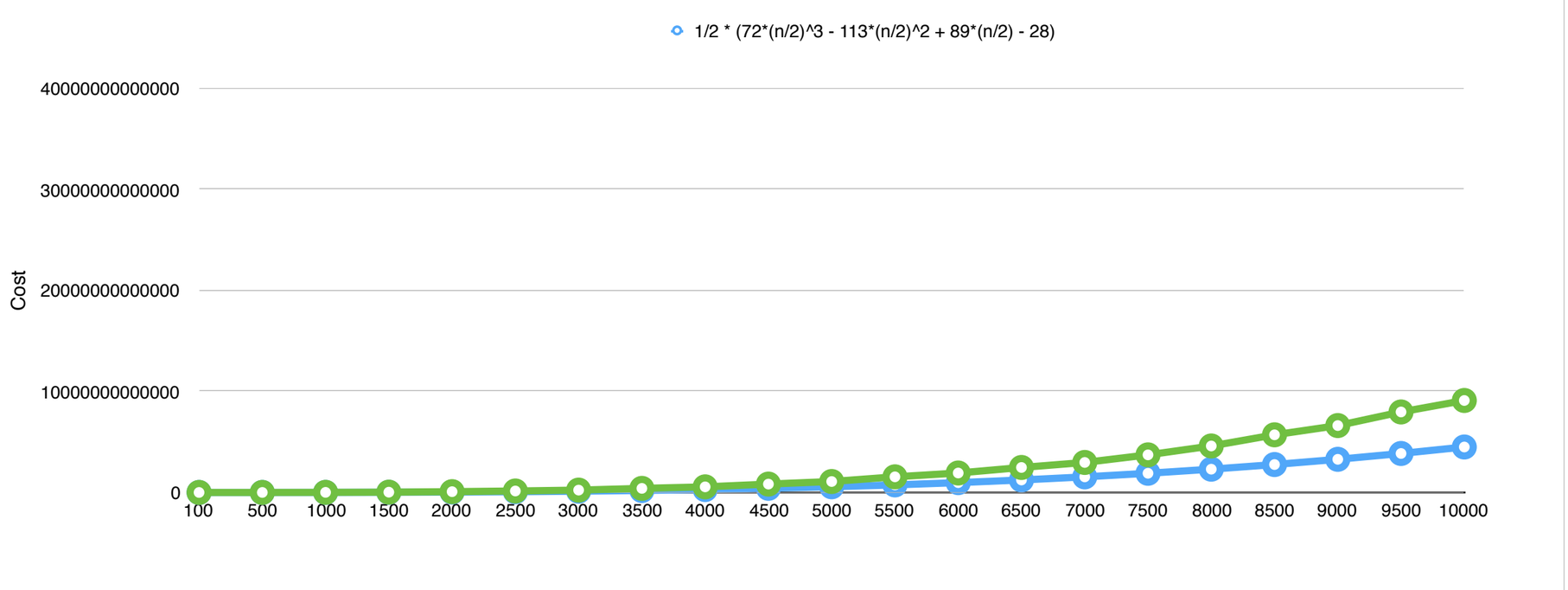
Strategy 2 – Worst Case

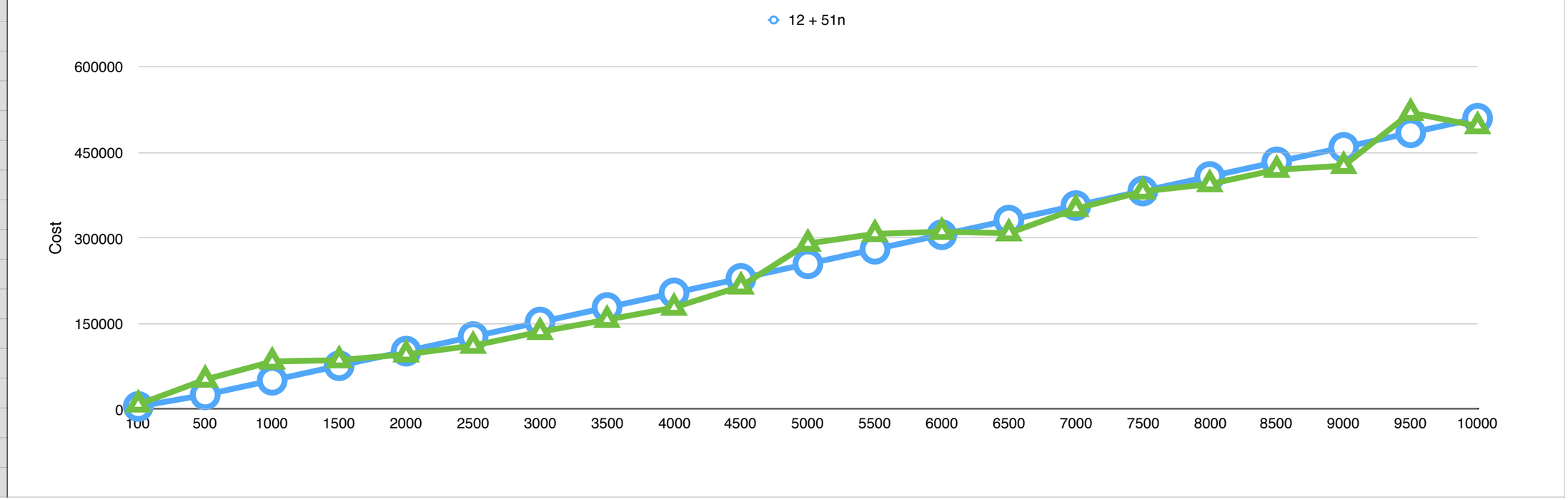
	100	500	1000	1500	2000	2500	3000	3500	4000	4500	5000
1/2 * (72*n^3 - 113*n^2 + 89*n - 28)	35439436	4485897236	35943544486	121372941736	287774088986	562146986236	971491633486	1542808030736	2303096177986	3279356075236	4498587722486
	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000	
1/2 * (72*n^3 - 113*n^2 + 89*n - 28)	5987791119736	7773966266986	9884113164236	12345231811486	15184322208736	18428384355986	22104418253236	26239423900486	30860401297736	35994350444986	



Strategy 2 – Likely Average Case

	100	500	1000	1500	2000	2500	3000	3500	4000	4500	5000
1/2 * (72*(n/2)^3 - 113*(n/2)^2 + 89*(n/2) - 28)	4360961	558979861	4485897236	15155752111	35943544486	70224274361	121372941736	192764546611	287774088986	409776568861	562146986236
	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000	
1/2 * (72*(n/2)^3 - 113*(n/2)^2 + 89*(n/2) - 28)	748260341111	971491633486	1235215863361	1542808030736	1897643135611	2303096177986	2762542157861	3279356075236	3856912930111	4498587722486	



Strategy 3

	100	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000
12 + 51n	5112	25512	51012	76512	102012	127512	153012	178512	204012	229512	255012	280512	306012	331512	357012	382512	408012	433512	459012	484512	510012