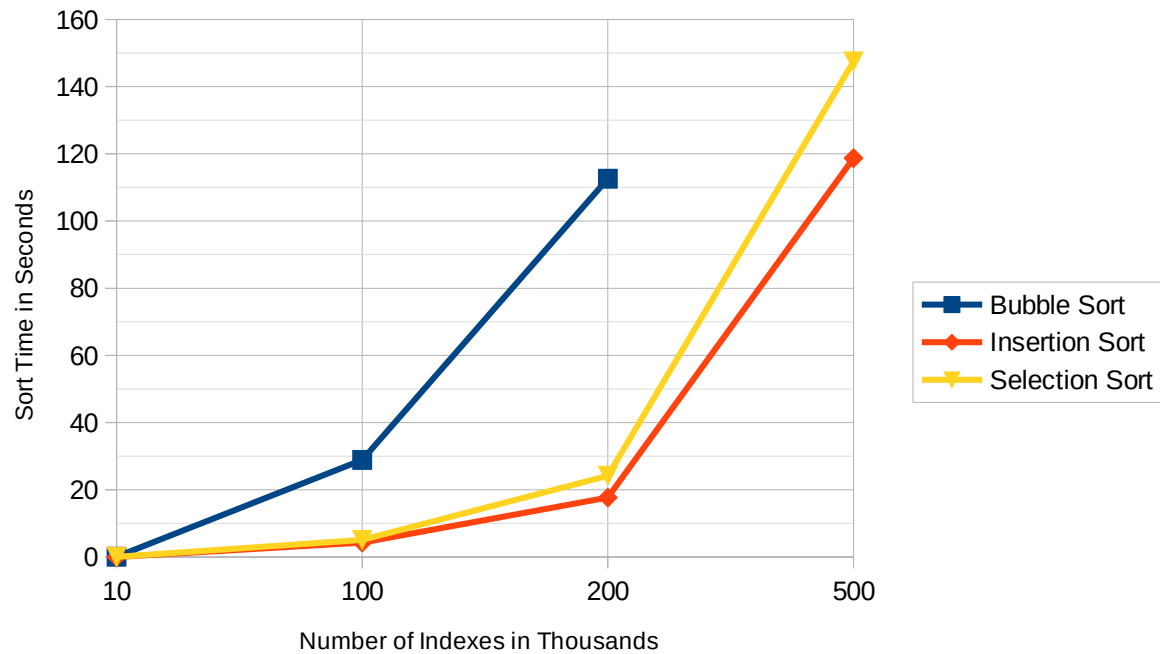


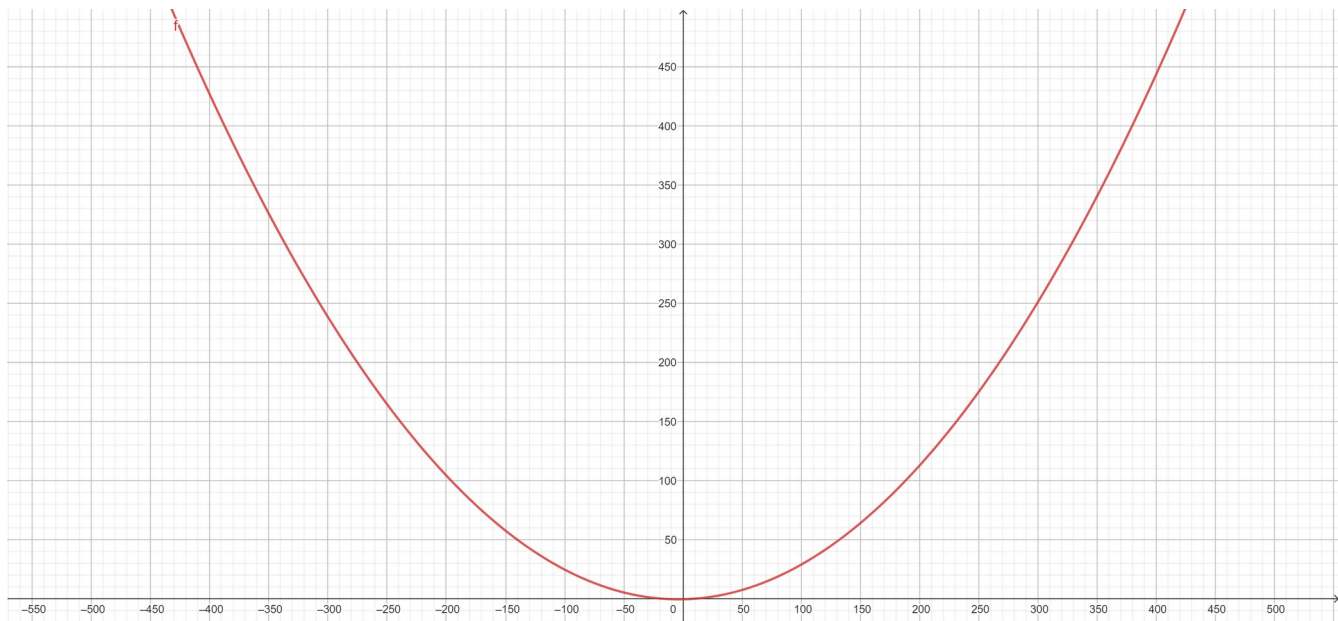
	10,000 Indexes	100,000 Indexes	200,000 Indexes	500,000
Bubble Sort	.084	28.9	112.6	NO DATA
Insertion Sort	.02	4.3	17.7	118.7
Selection Sort	.04	5.1	24.2	147.5



The Data is very consistent that Insertion is the best method followed by selection in close second and bubble always being significantly worse and the trends of the graph seem to indicate that it's consistently the same which makes sense because they all have same output increase of n^2

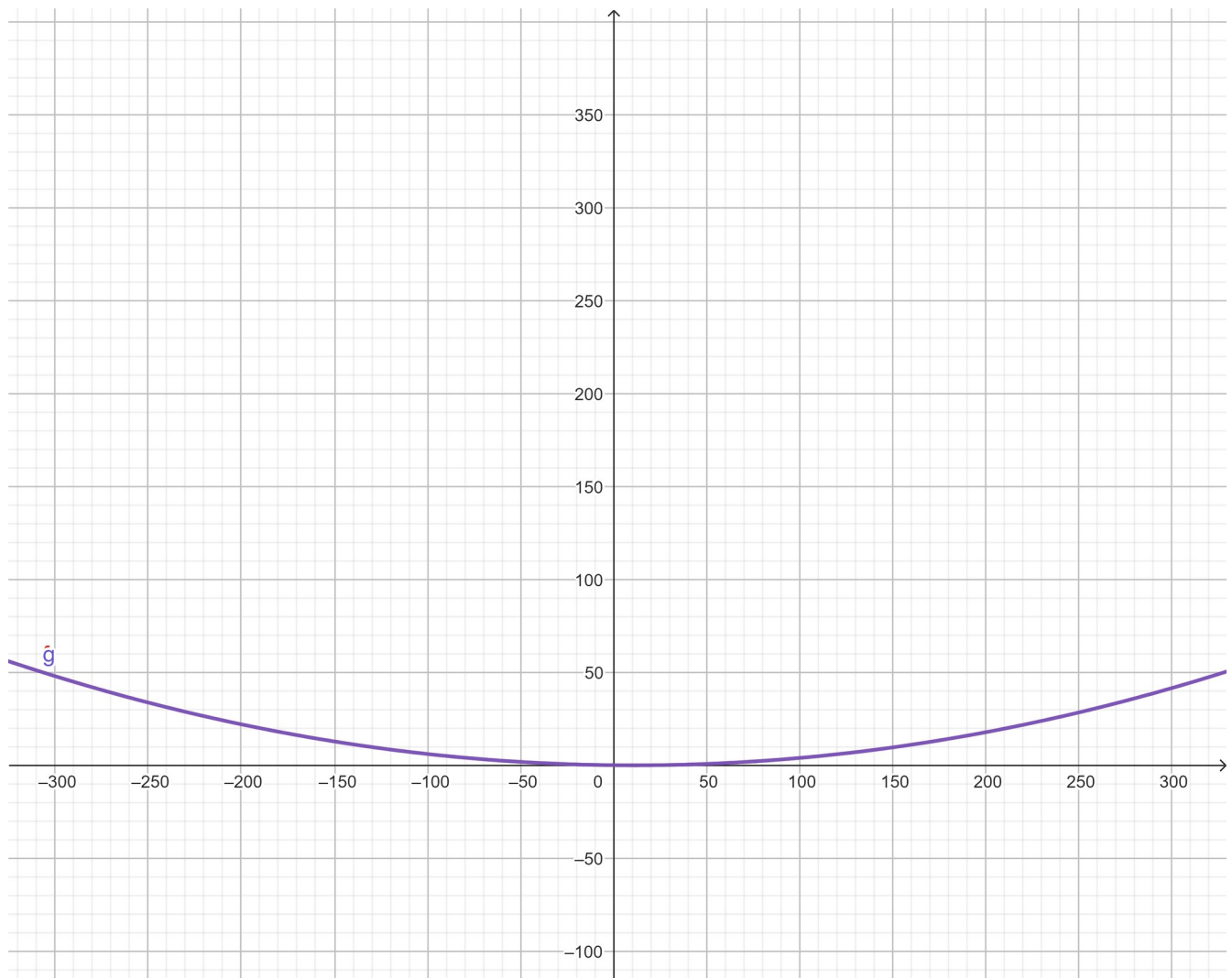
Bubble Sort:

$$0.0027201169591x^2 + 0.0209649122807x - 0.3976608187134$$



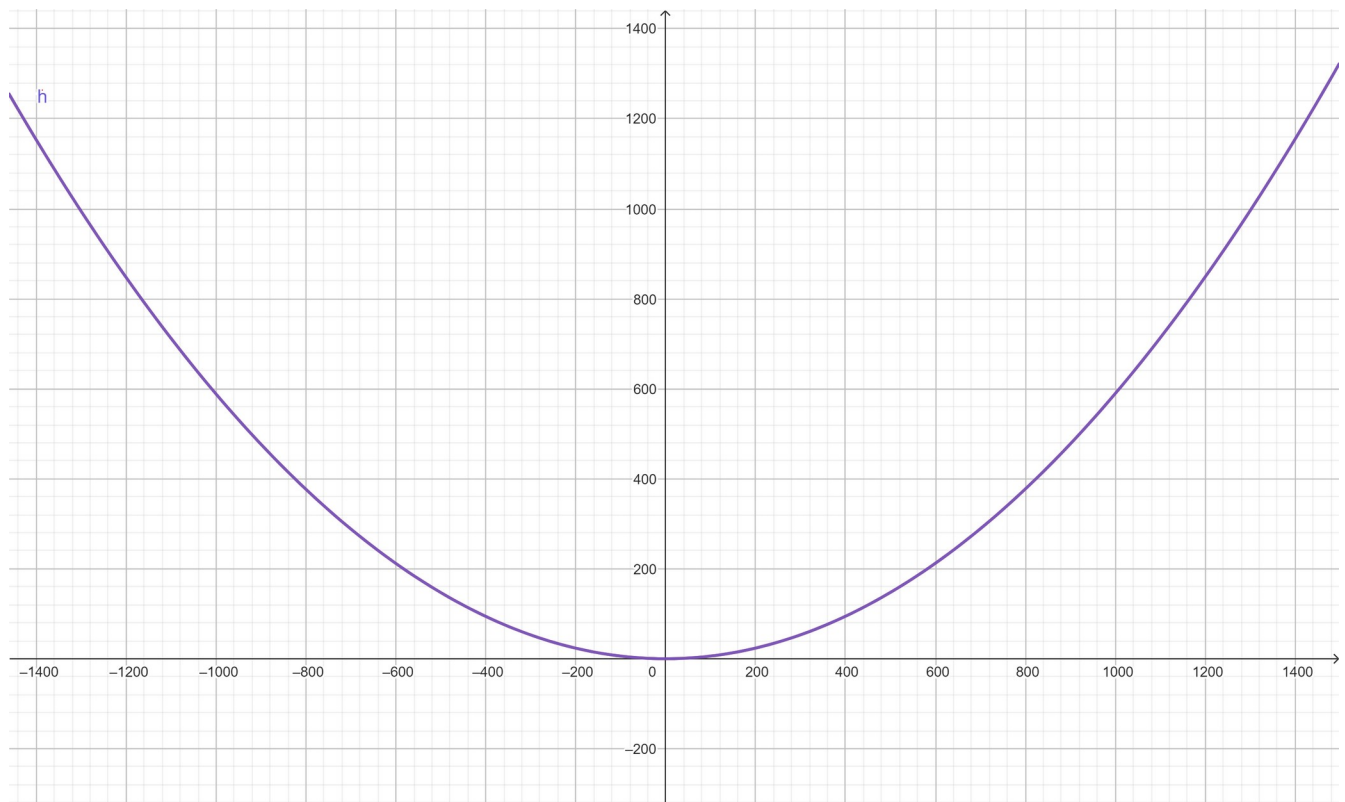
Insertion Sort:

$$0.0004955247329x^2 - 0.0107532451296x + 0.1807890557953$$

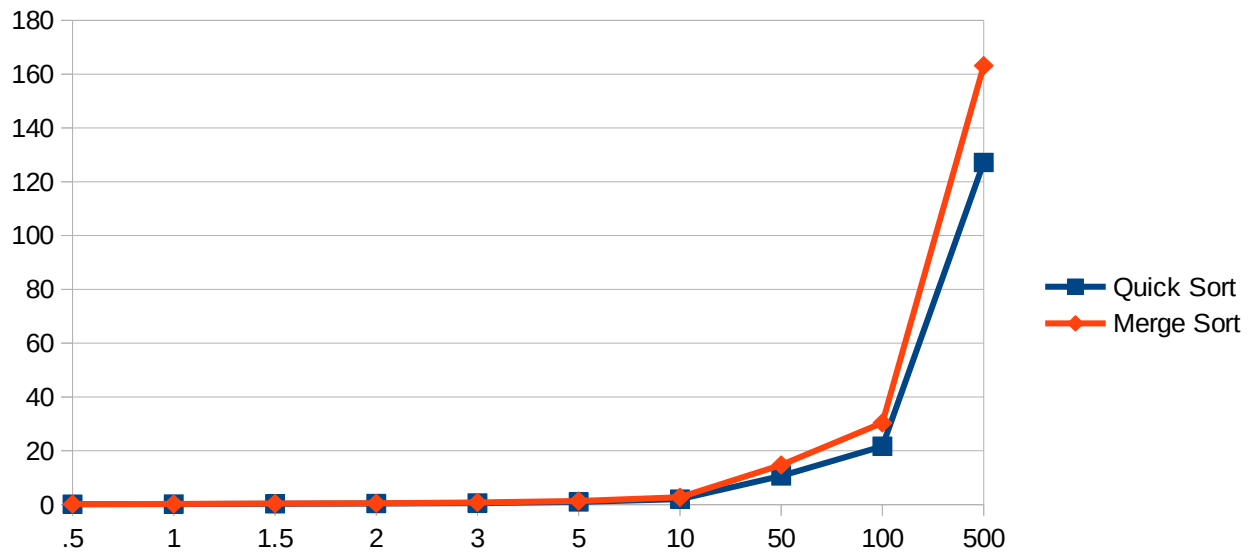


Selection Sort

$$0.0005888833323 x^2 + 0.0007101371321 x - 0.024774778049$$



	Quick Sort	Merge Sort
.5	.11	.14
1	.21	.26
1.5	.30	.40
2	.39	.50
3	.57	.77
5	1.01	1.33
10	2.01	2.69
50	10.68	14.71
100	21.67	30.35
500	127.19	163.14



Quick Sort is consistently the better algorithm of the two consistently keeping better speed the lines never cross.

