Rapport du projet

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introduction

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présentation du problème

- **L'influence (ou non) de points de croisement tombant au milieu d'un sinus ou entre deux sinus**

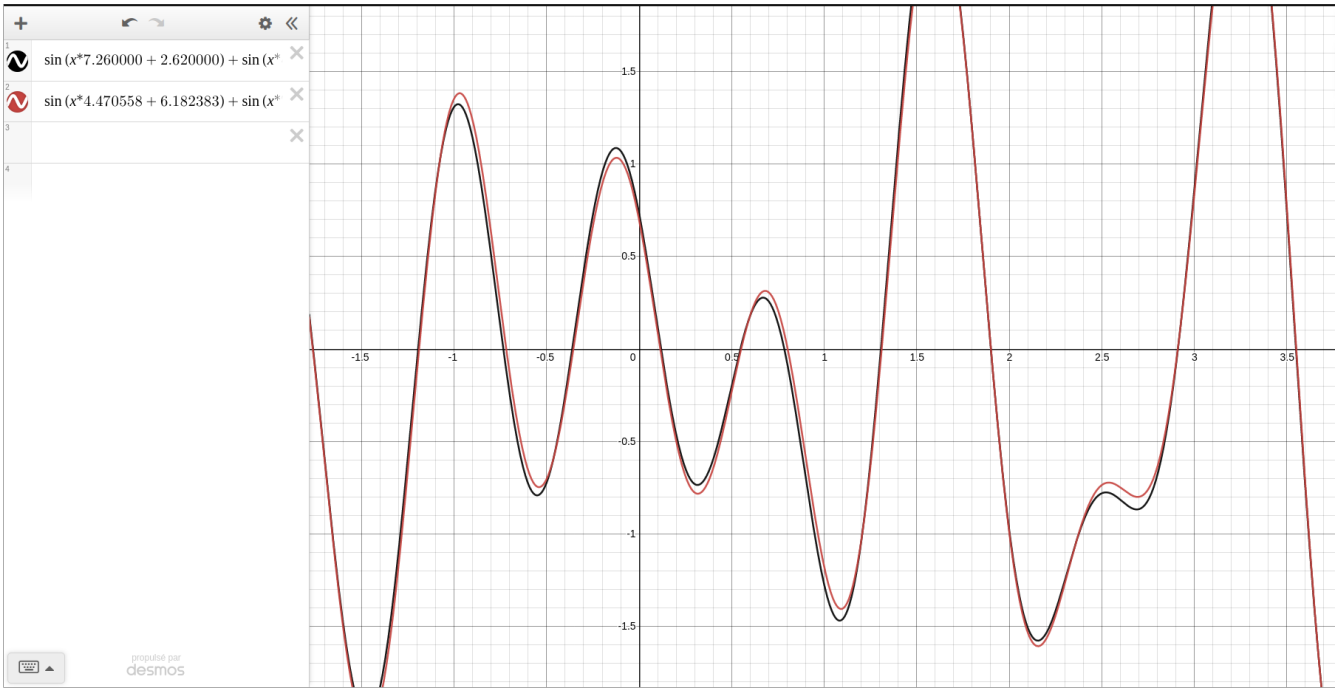
> **NOTE** Pas du vrai influence je pense

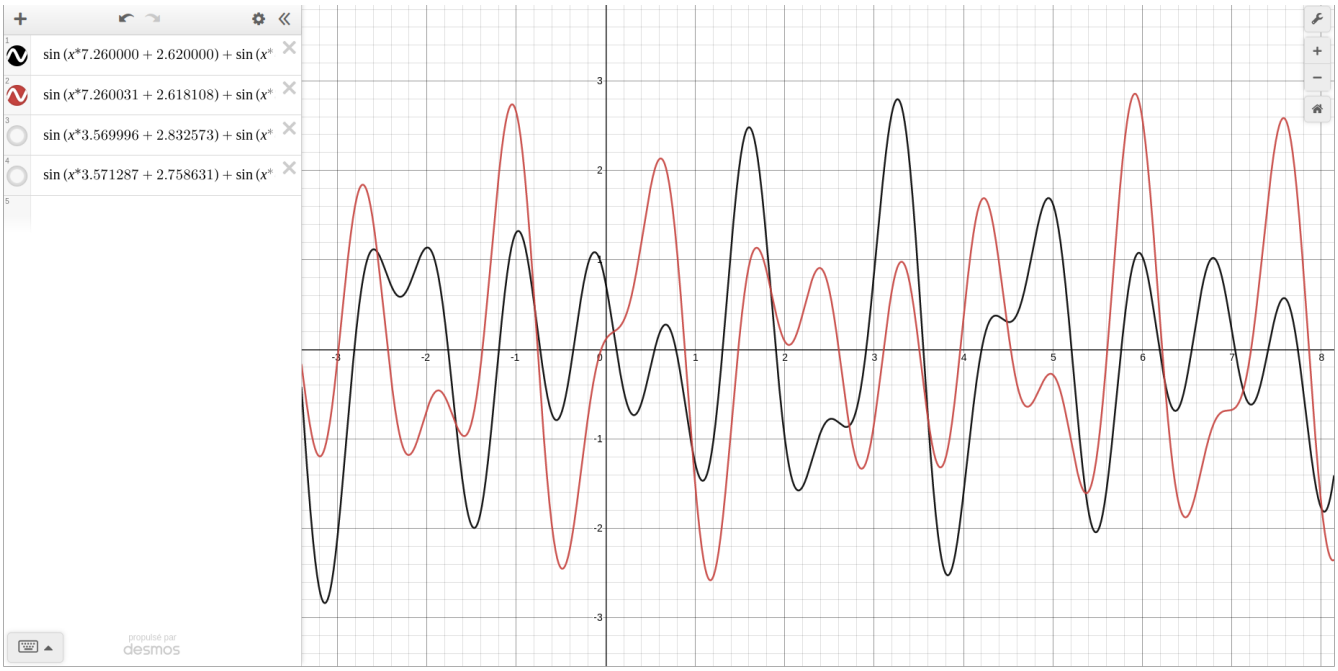
- **La comparaison entre les runs précédents et des runs où les valeurs x0..x7 évoluent en même temps que le génome (par mutation et croisement)**

> **IMPORTANT** voir *.log

Resultat

plot points de croisement tombant au milieu d'un sinus





Run configuration: Start time: 2022-01-15_17-11-04 Seed: 1642263064 Number of generations: 100 Population size: 10000 CPU Threads number: 1 Evaluation goal: 1

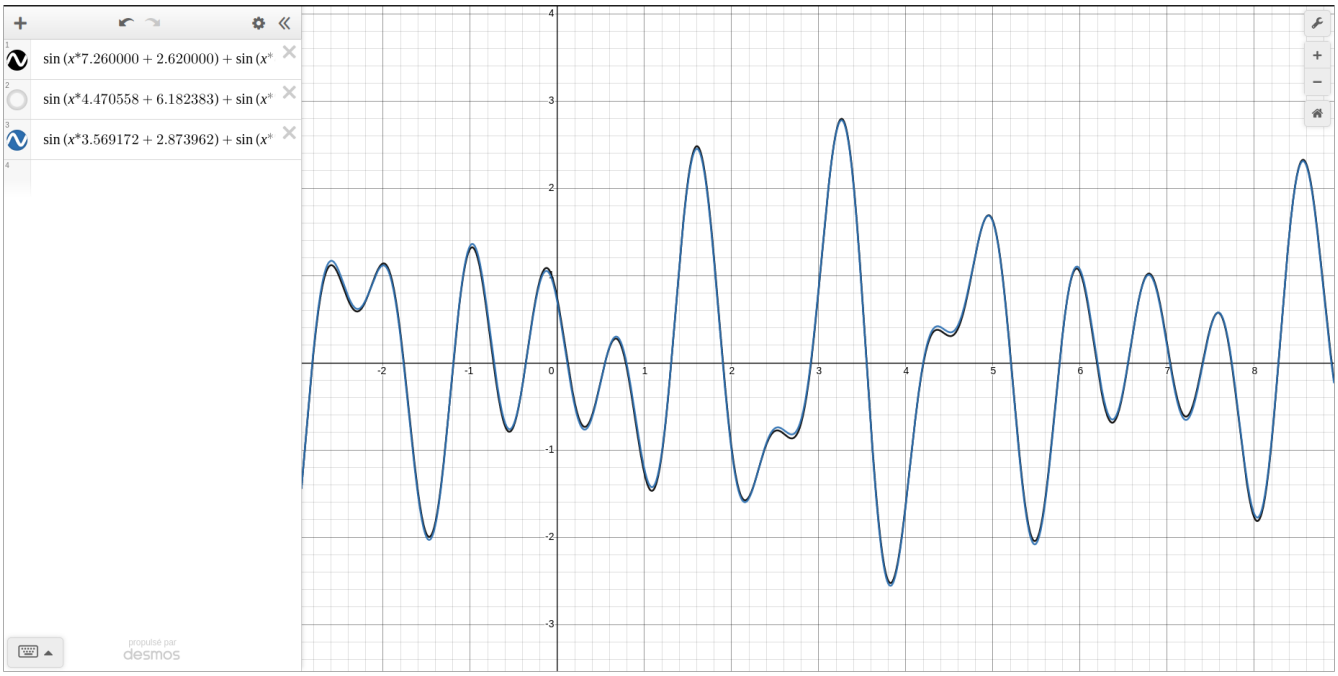
> Special options: Offspring population size: 10000 Mutation probability: 1 Crossover probability: 1 Selection operator: Tournament Selection pressure: 7 Reduce parent pressure: 2 Reduce offspring pressure: 1 Reduce parents operator: Tournament Reduce offspring operator: Tournament Surviving parents: 10000 Surviving offspring: 10000 Replacement operator: Tournament Replacement pressure: 2 Elitism: 1 Elite size: 1

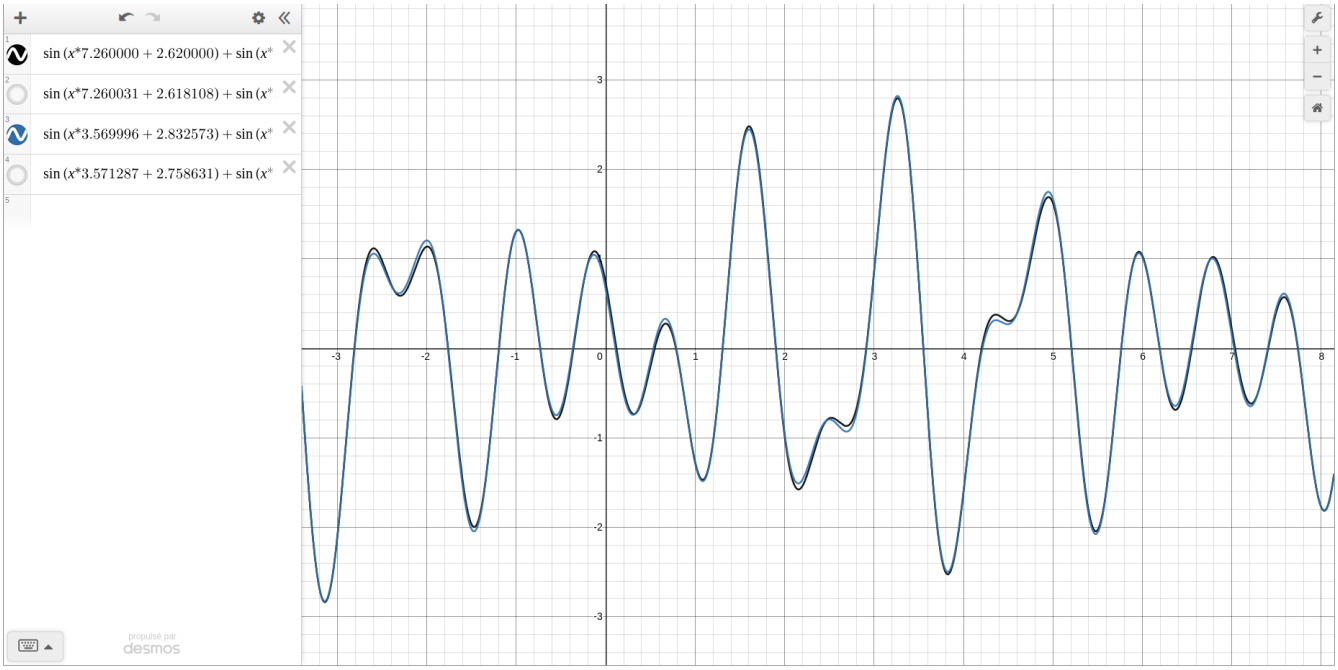
Remote island model: Remote island model: 0 Ip file: ip.txt Migration probability: 0.3 Server port: 2929 Reevaluate immigrants: 0

> Result: Best fitness: 769.788 Best individual: 69.4309 4.47056 6.18238 29.0694 7.26093 2.57436 26.4071 3.56902 2.87914 769.788
>
> Elapsed time: 44.7962 s

User's messages:

plot points de croisement entre deux sinus





Run configuration: Start time: 2022-01-15_18-01-43 Seed: 1642266103 Number of generations: 100 Population size: 10000 CPU Threads number: 1 Evaluation goal: 1

> Special options: Offspring population size: 10000 Mutation probability: 1 Crossover probability: 1 Selection operator: Tournament Selection pressure: 7 Reduce parent pressure: 2 Reduce offspring pressure: 1 Reduce parents operator: Tournament Reduce offspring operator: Tournament Surviving parents: 10000 Surviving offspring: 10000 Replacement operator: Tournament Replacement pressure: 2 Elitism: 1 Elite size: 1

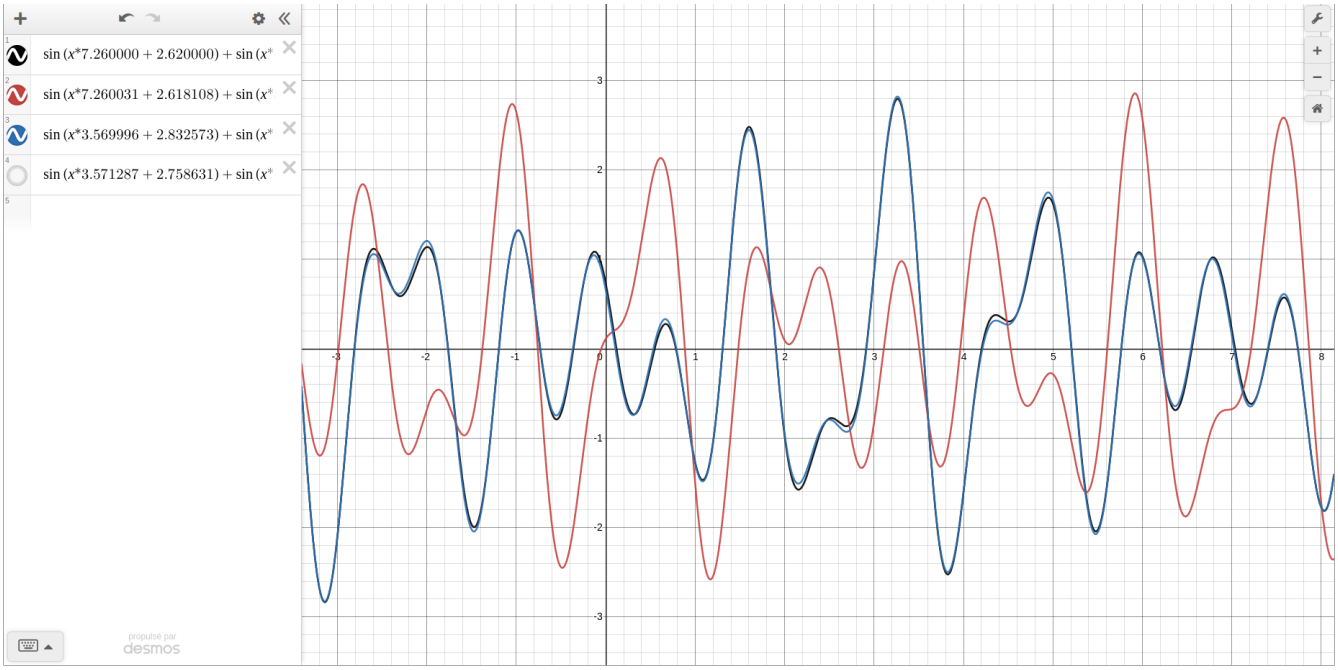
Remote island model: Remote island model: 0 Ip file: ip.txt Migration probability: 0.3 Server port: 2929 Reevaluate immigrants: 0

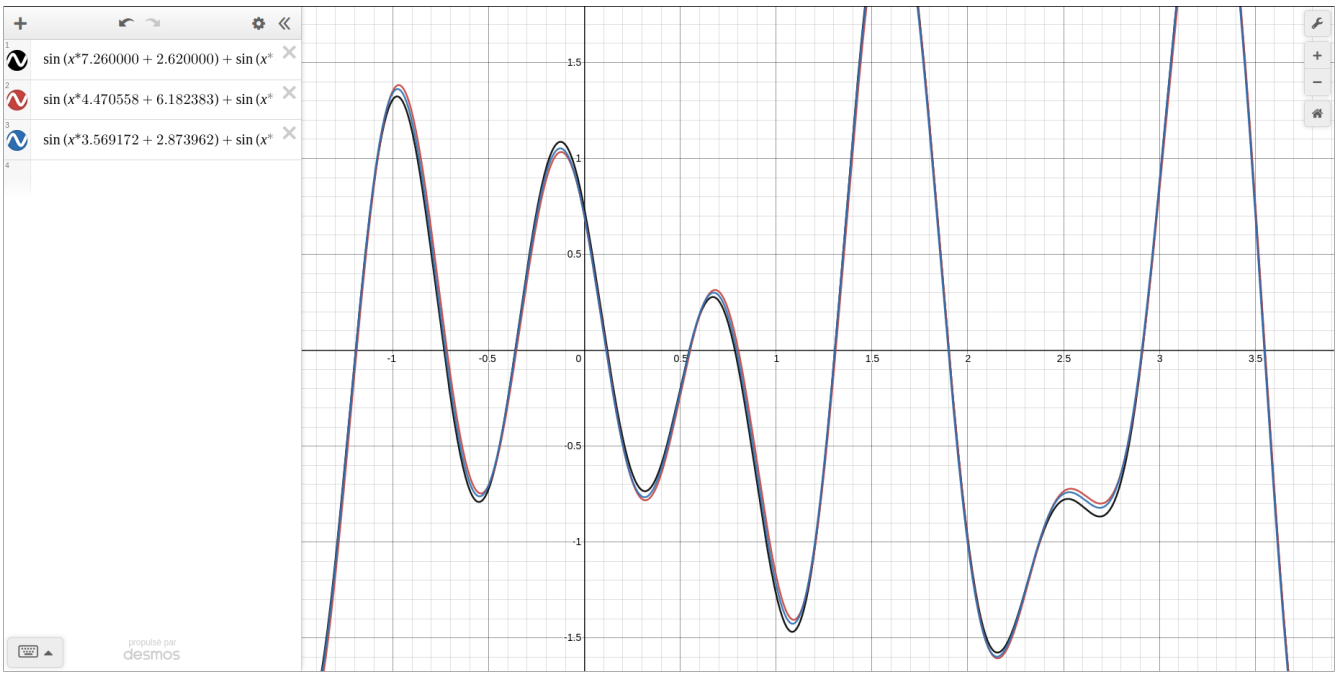
> Result: Best fitness: 990.007 Best individual: 26.3356 3.57 2.83257 69.3822 4.47084 6.1677 29.1214 7.25923 2.65565 990.007

> Elapsed time: 46.5009 s

User’s messages:

voir différence





rouge est moins bon mais pas trop ! pas consitant!

question b

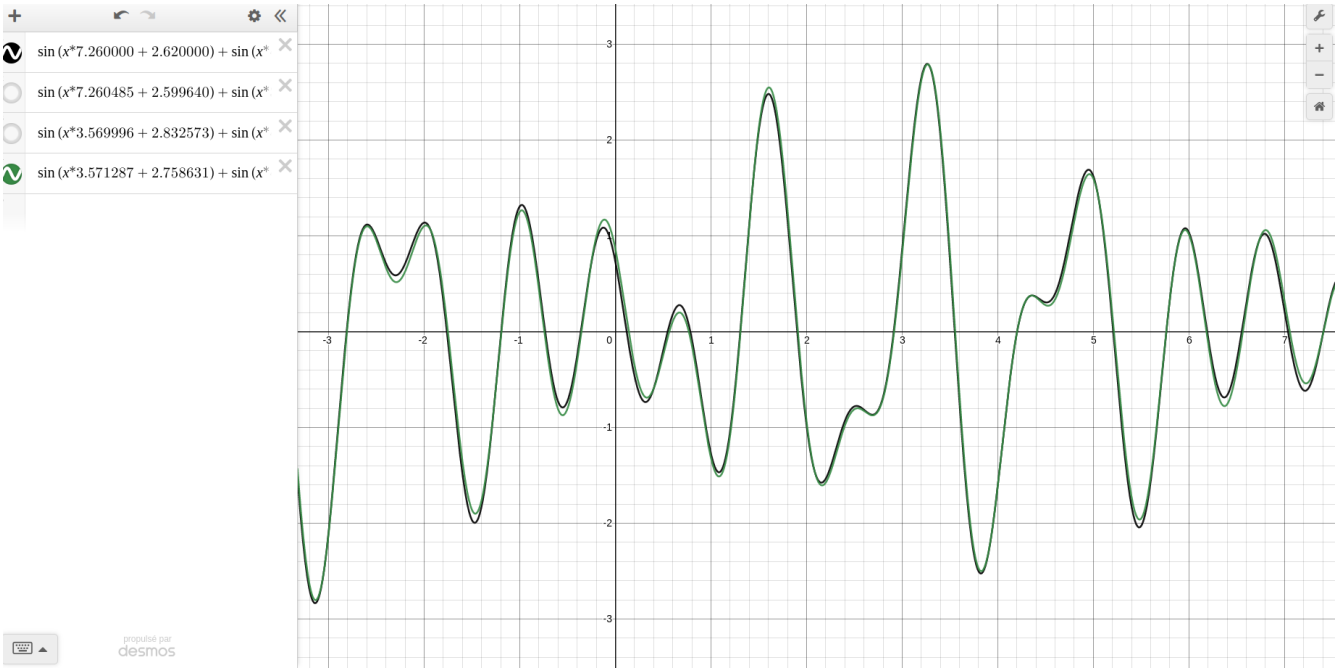
Run configuration: Start time: 2022-01-15_17-47-29 Seed: 1642265249 Number of generations: 100 Population size: 10000 CPU Threads number: 1 Evaluation goal: 1

> Special options: Offspring population size: 10000 Mutation probability: 1 Crossover probability: 1 Selection operator: Tournament Selection pressure: 7 Reduce parent pressure: 2 Reduce offspring pressure: 1 Reduce parents operator: Tournament Reduce offspring operator: Tournament Surviving parents: 10000 Surviving offspring: 10000 Replacement operator: Tournament Replacement pressure: 2 Elitism: 1 Elite size: 1

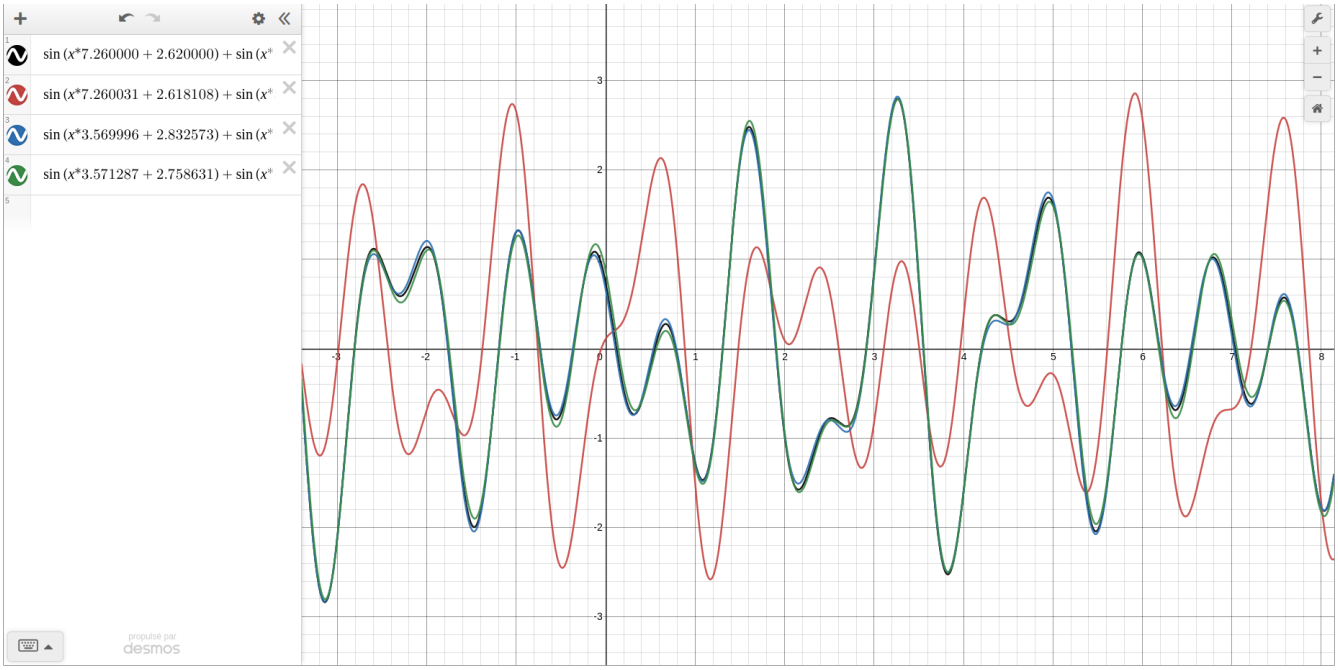
Remote island model: Remote island model: 0 Ip file: ip.txt Migration probability: 0.3 Server port: 2929 Reevaluate immigrants: 0

> Result: Best fitness: 367.248 Best individual: 0.156745 0.614976 0.6414 0.576694 0.356598 0.0157435 0.917441 0.306524 0.408412 26.4051 3.56952 2.85469 29.1058 7.25953 2.64508 69.3838 4.46973 6.224 367.248
>
> Elapsed time: 44.4878 s

User's messages:



plot all



le vert est quand on révalue la prob des locus a chaque gen

Conclusion

> **NOTE** répondre au deux questions