

Lab 1: Linear transformations

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MATH252 Group 2

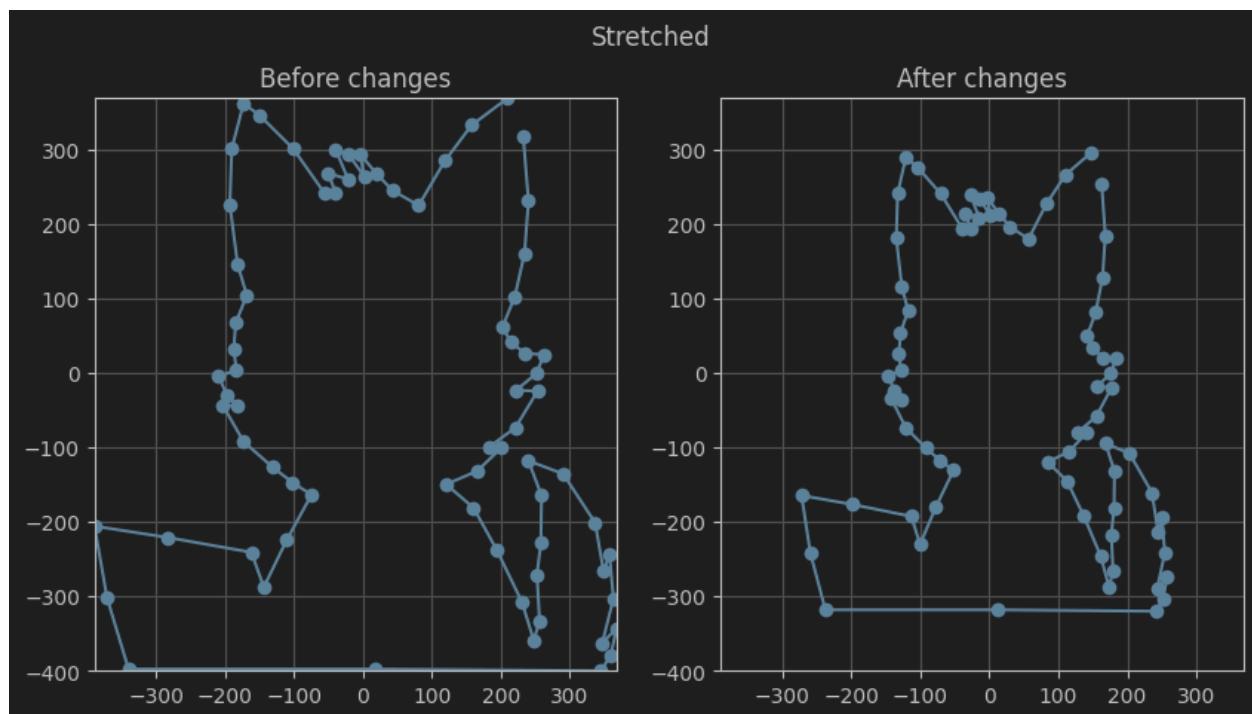
Link on repo: <https://github.com/nvytska/lab1-linear-transformations>

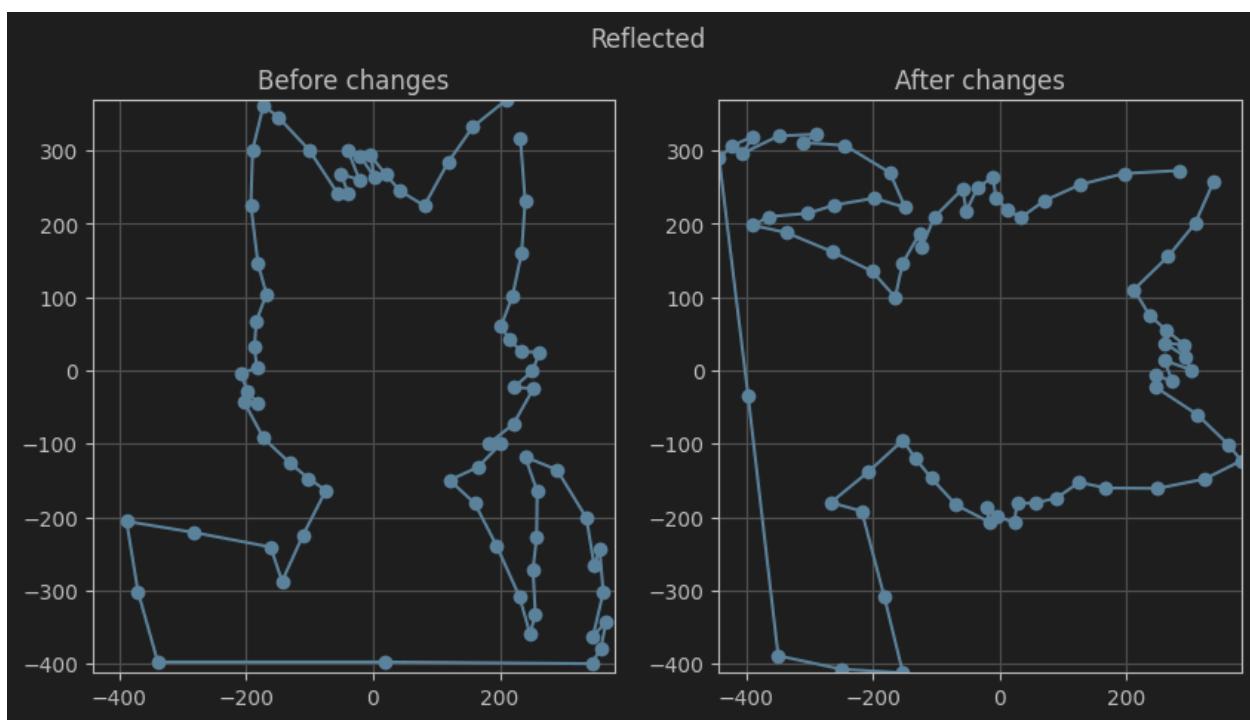
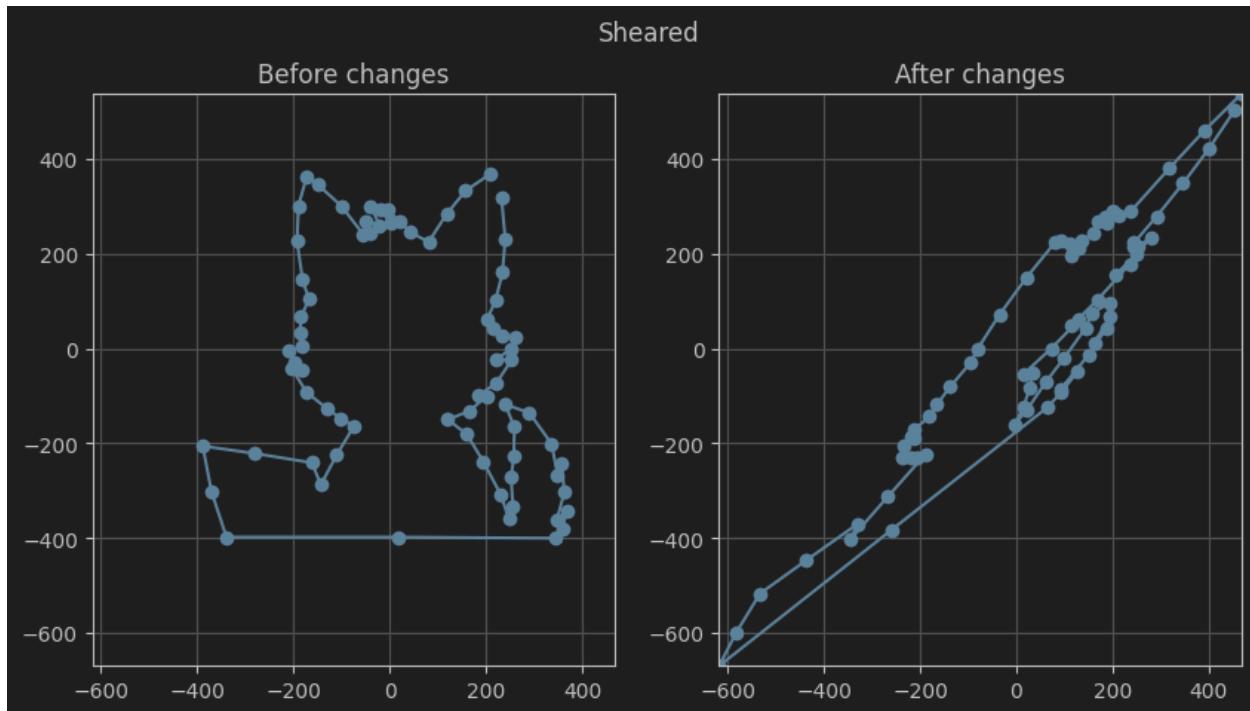
There you will find code in files and answers on theoretical questions.

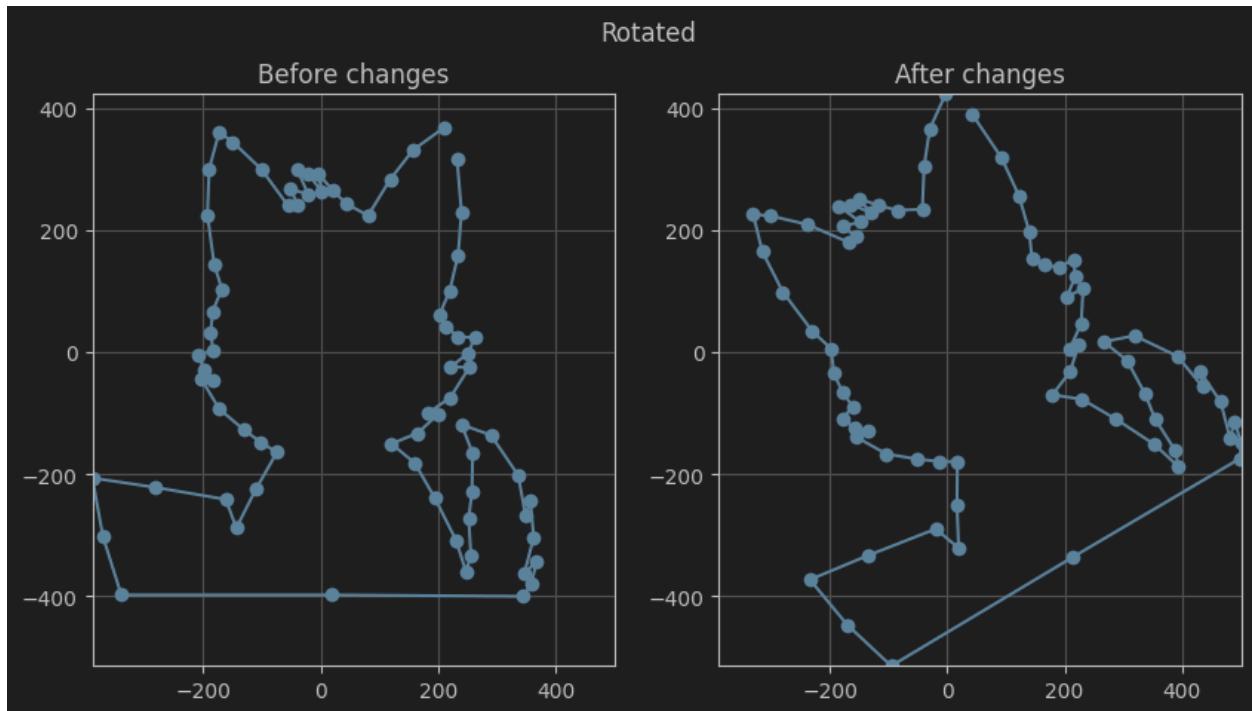
Results of tasks:

Task 1.

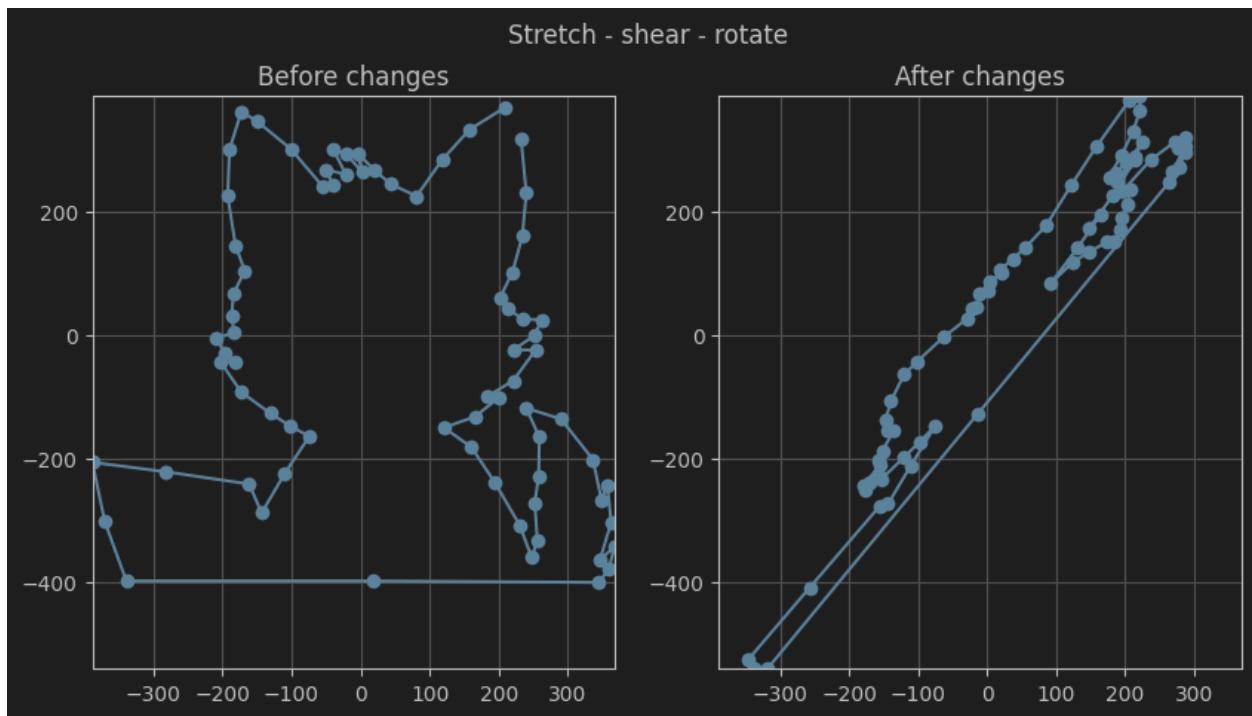
Applied transformations on lynx

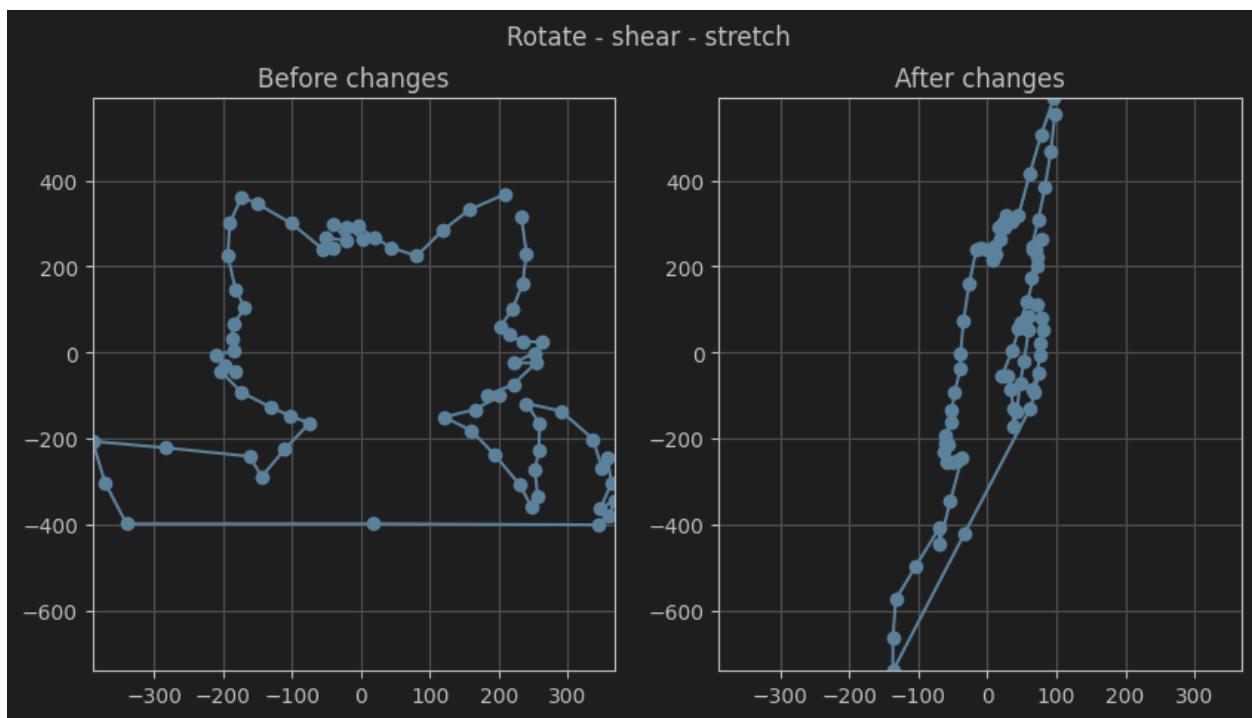
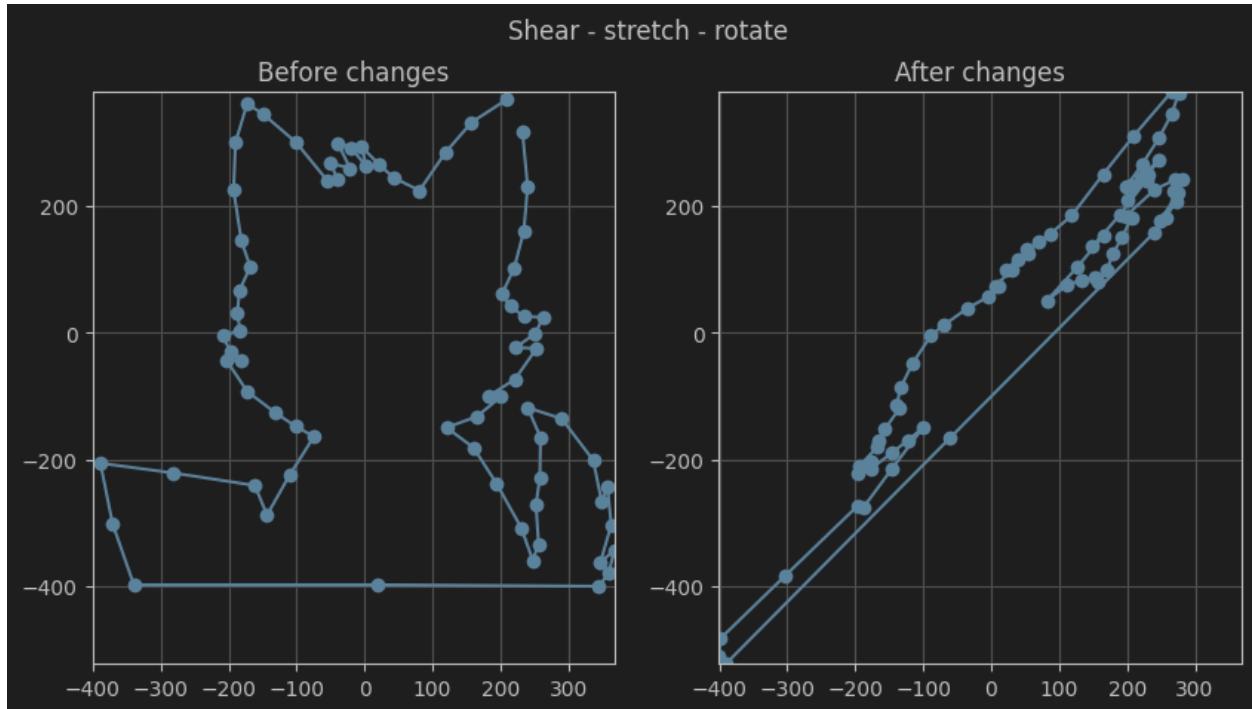






Task 2.



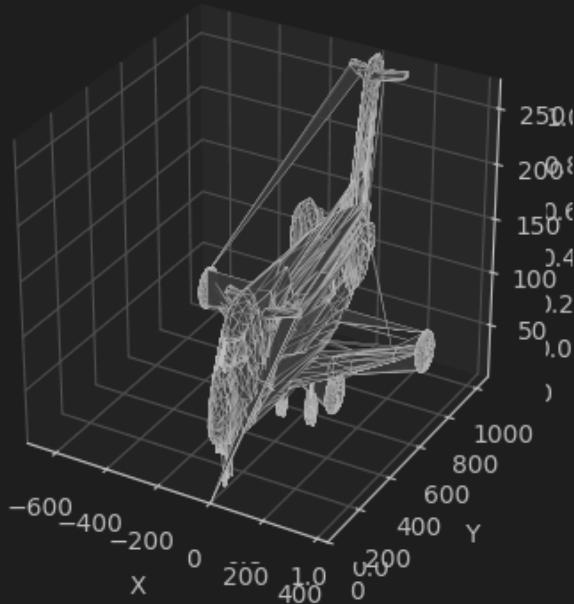


All results are different because matrix multiplication is not commutative, changing the order of transformations changes the final result.

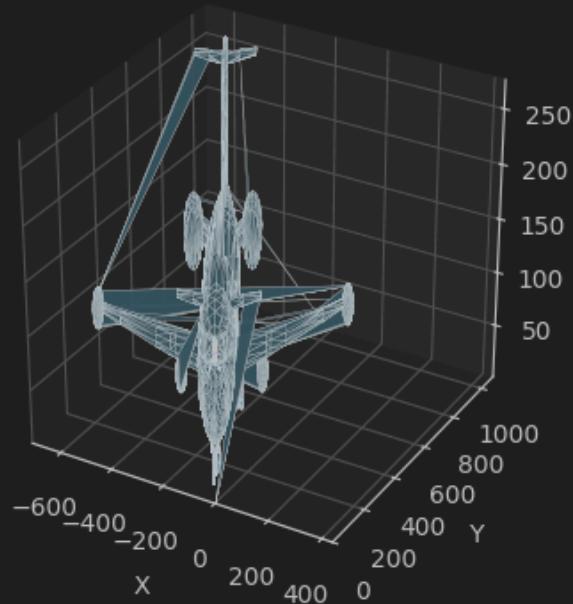
Task 3.

Rotated XY

Before changes

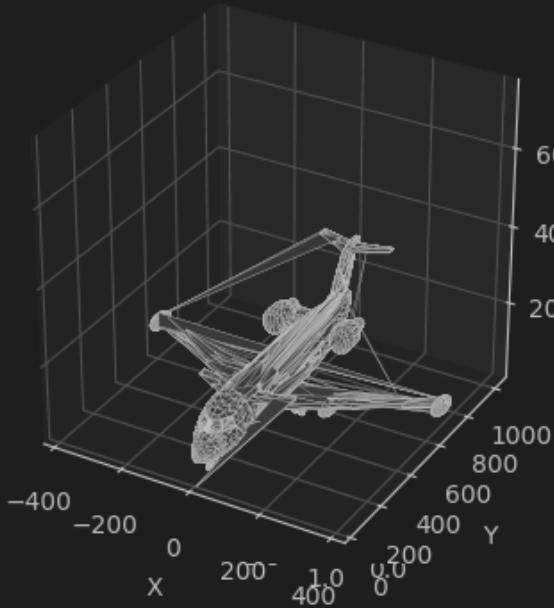


After changes

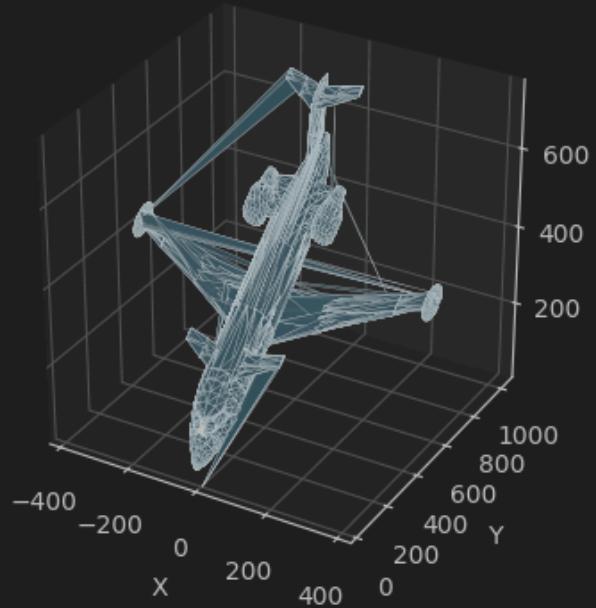


Rotated YZ

Before changes

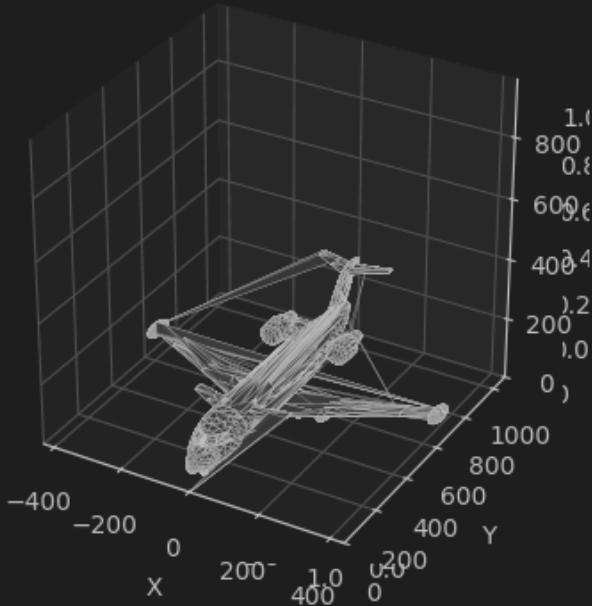


After changes

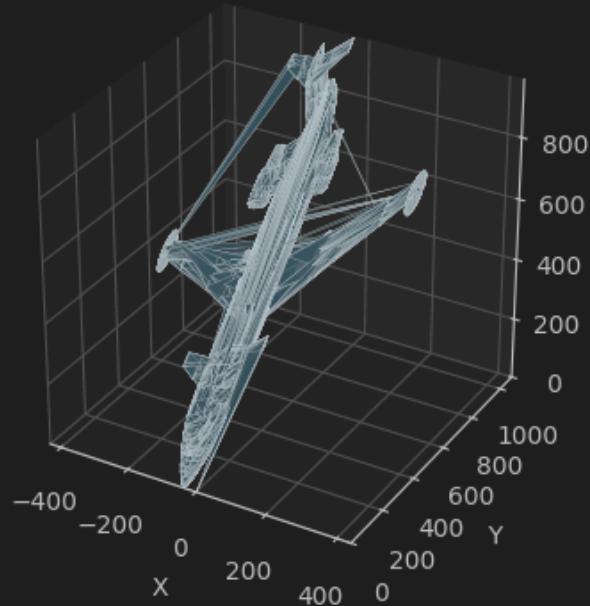


Rotated XZ

Before changes



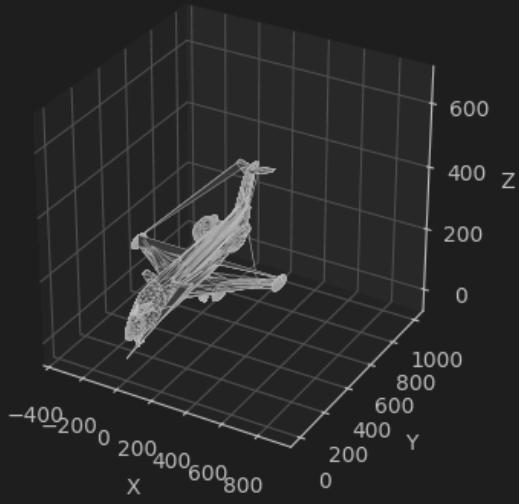
After changes



Task 4.

Task 4: Combined rotation

Before changes



After changes

