

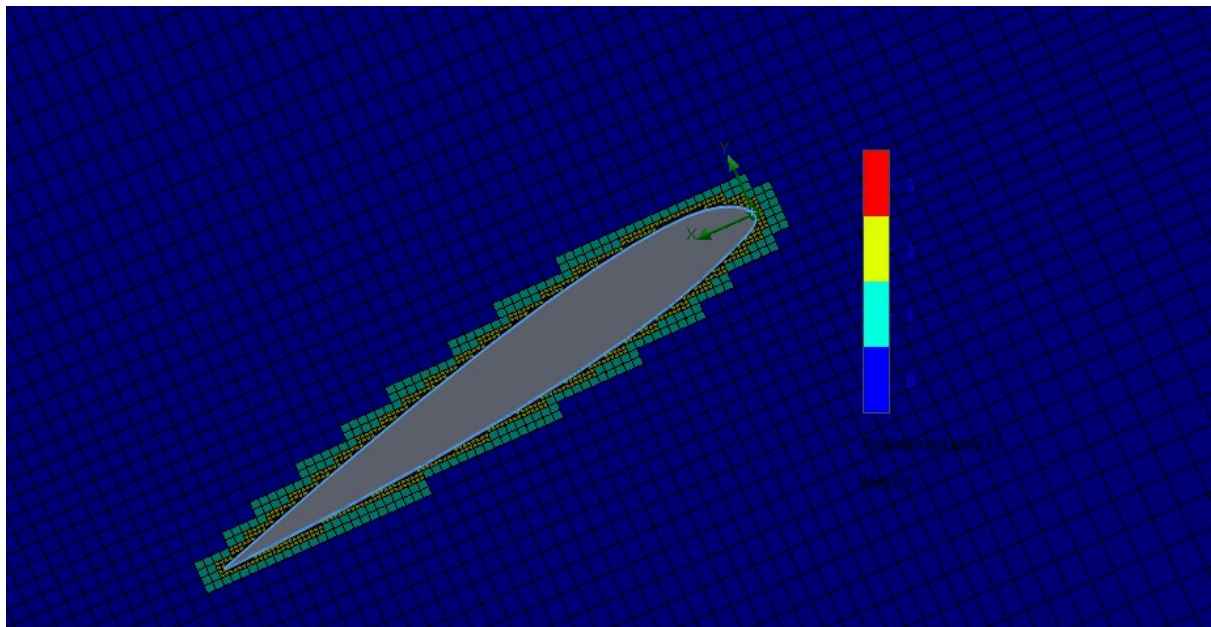
# Modeling the Airflow Around an Airplane Wing

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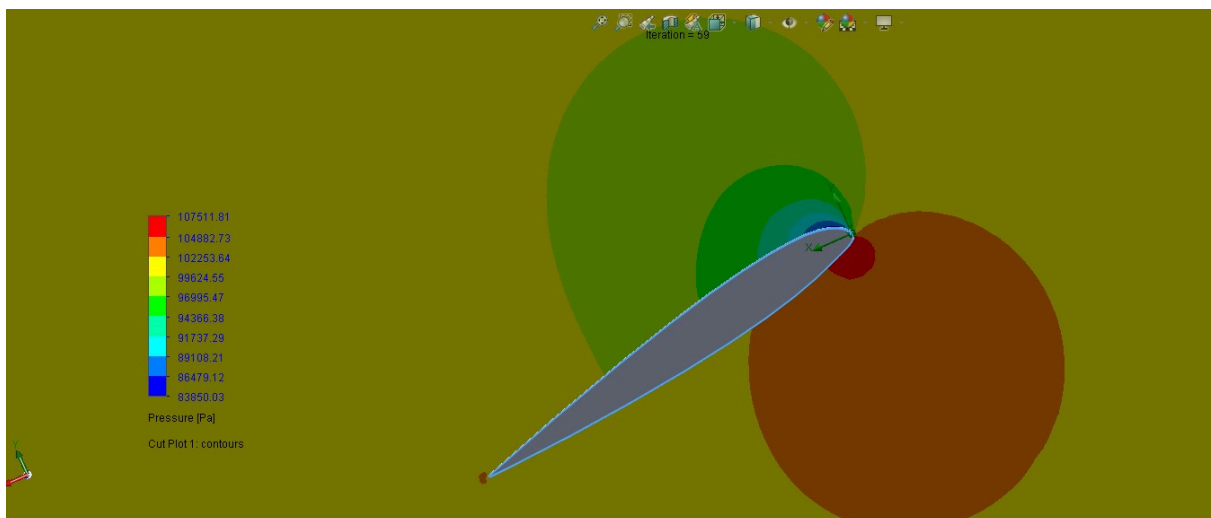
## Obtained results:

### SIMULATIONS

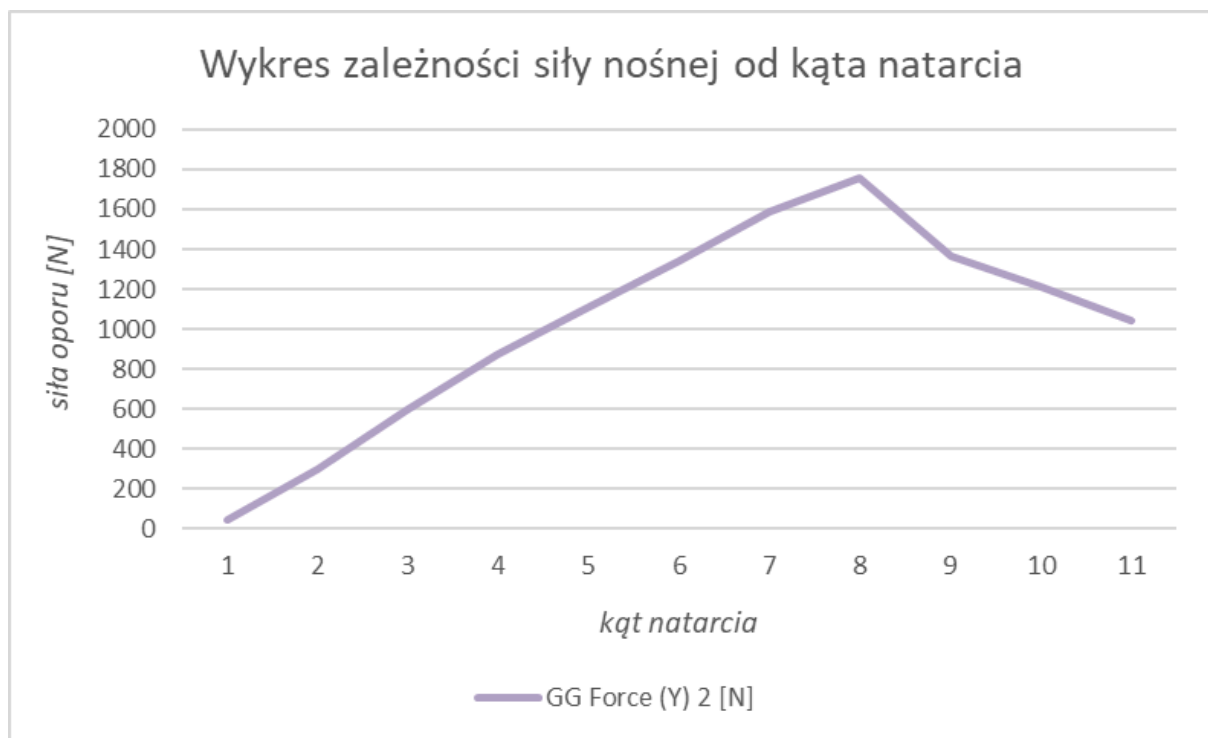
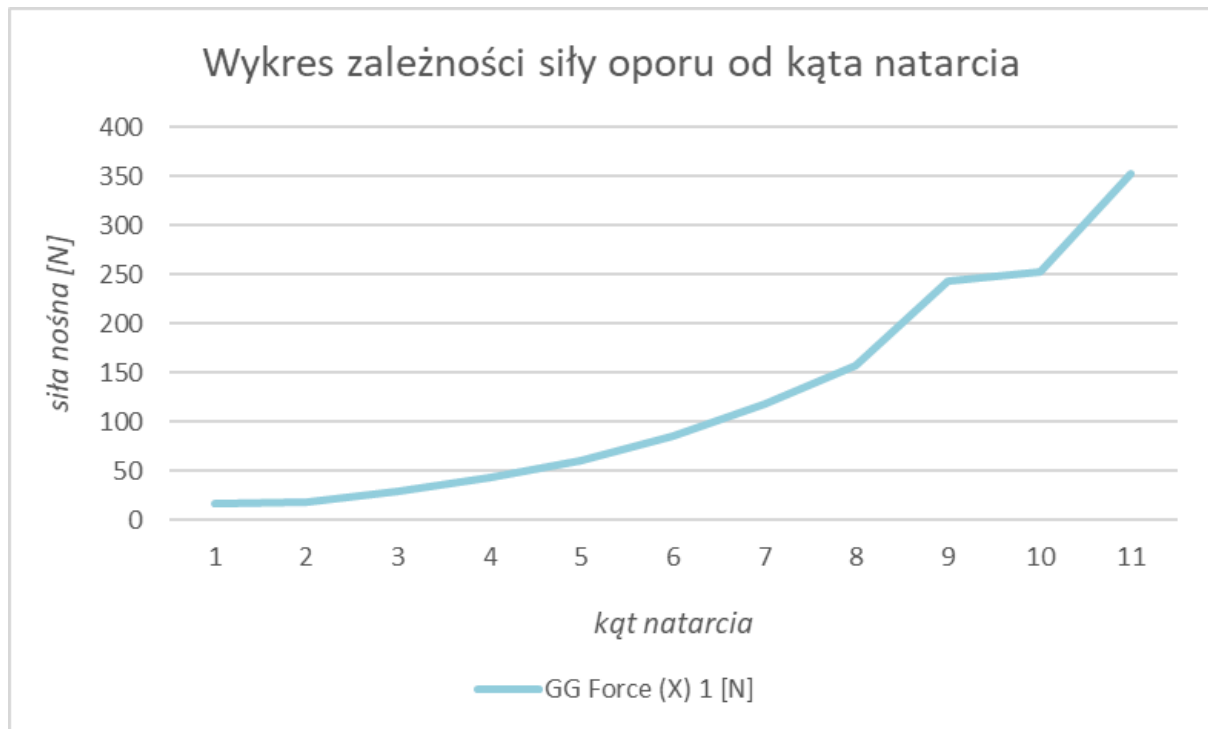
Mesh:



Cut Plots



## RESULTS



## **CONCLUSIONS**

The lift force of the airplane wing increases with the angle of attack up to a certain point, after which its value begins to decrease.

The drag force constantly increases with the increasing angle of attack of the airplane wing. There is a point where further increasing the angle of attack may lead to a decrease in lift efficiency or an increase in drag, which could negatively impact the aircraft's performance and results.