



Homework-

1. For the aircraft assigned to you and use the corresponding aircraft data, provided drawings. Extract the relevant geometric parameters and provide estimates for all the longitudinal coefficients. **Make sure to have all the necessary parameters required to compute the following parameters. Submit the homework as a MATLAB CODE. Display only the required parameters.**

Aerodynamic Parameters

- $C_{Y_\beta} =$
- $C_{Y_{\delta_A}} =$
- $C_{Y_{\delta_R}} =$
- $C_{n_\beta} =$
- $C_{n_{\delta_A}} =$
- $C_{n_{\delta_R}} =$
- $C_{l_\beta} =$
- $C_{l_{\delta_A}} =$
- $C_{l_{\delta_R}} =$
- $C_{l_p} =$
- $C_{Y_p} =$
- $C_{n_p} =$
- $C_{l_r} =$
- $C_{Y_r} =$
- $C_{n_r} =$