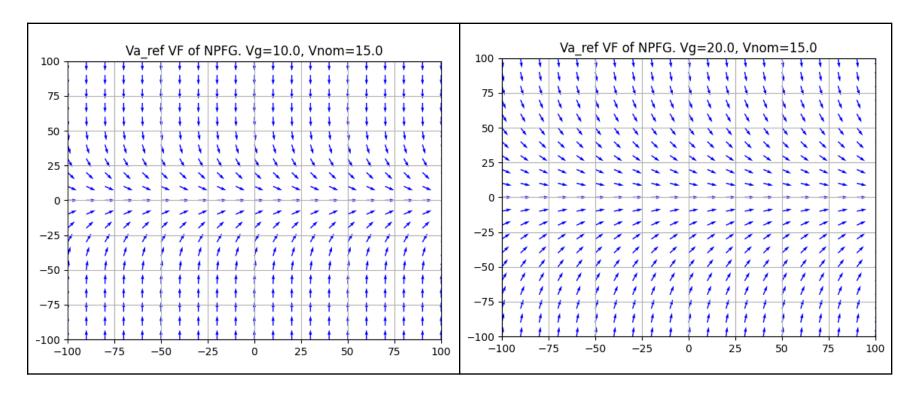
About

As discussed in the Weekly meeting from Jan 4, 2023, an effort to visualize the Vector Field was tried out. Which hopefully gives more insight into how the NPFG expects/ commands vehicle to move.

Straight Path

Script can be found here.

Straight path passing through origin with 0 course angle (X+ direction)



Ground speed 20m/s. Track error boundary was 141.42 m.

Observations

- Regardless of vehicle's true air-speed (which equals ground speed, in wind-less environment simulated), the commanded air reference velocity had a constant magnitude of 15 m/s (nominal airspeed).
 - <u>Is this desired? Do we really want to command the vehicle to always stick to nominal airspeed?</u>
 - Note, the airspeed manipulating logic hasn't been implemented yet (only minimum ground-speed requirement)
- With higher ground speed, track-error boundary is higher (larger), and air-velocity reference vector starts turning it's bearing earlier (further from the path) > As expected