```
Project 2

Jae seok oh (jaeseoko)
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## Exercise 1.1)

```
Rank of P = 4
(4, 8)

Rank of Q = 4
(16, 4)

Rank of P = 4
(4, 8)

Rank of Q = 4
(16, 4)

Rank of P = 4
(4, 8)

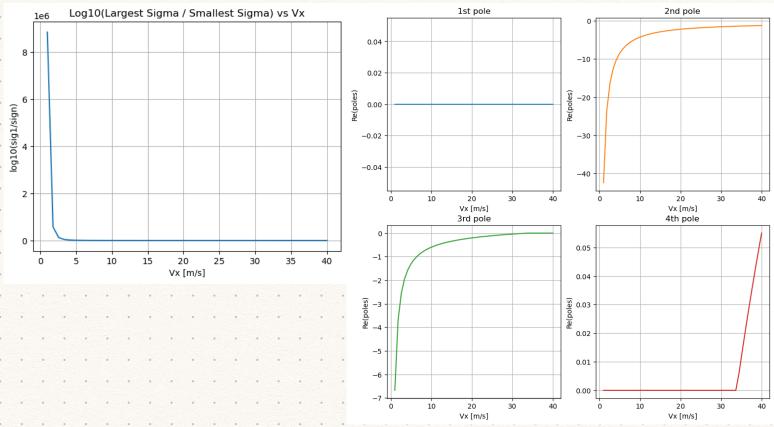
Rank of Q = 4
(16, 4)

Bank of Q = 4
(16, 4)

Both controllable and observable for given x velocities
```

Calculated in QI. Py

## exercise 1.2)



poles, we Change velocity inderses Stable more responsive, but less ustable system goes as the velocity increases, log (Ji/Jn) plot, indicate the singular unives Which . + this indicates more controllability, (easier)

## Exercise 2 Plot

