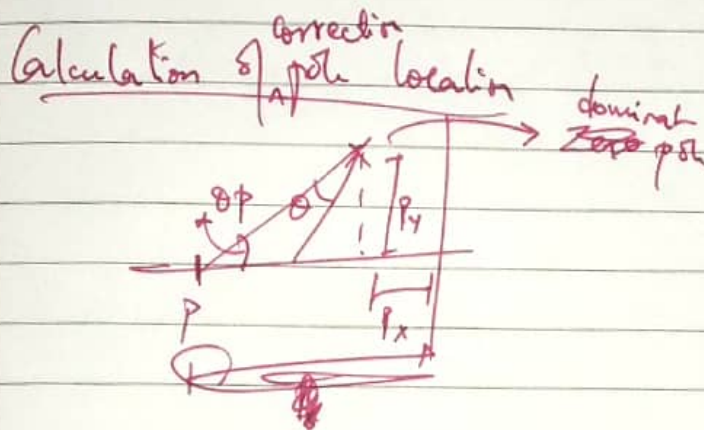


Tut-2

1. 1) Second order approximation is NOT valid as poles of the closed loop system are closer than 5 times the supposed dominant poles (on the Real axis).

Poles listed in code output.

2. b) Second order approximation is valid.



$$P = -P_x - \frac{P_y \tan \theta}{1}$$