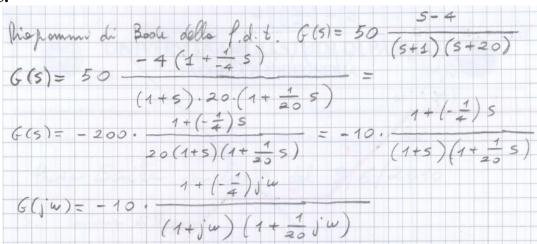
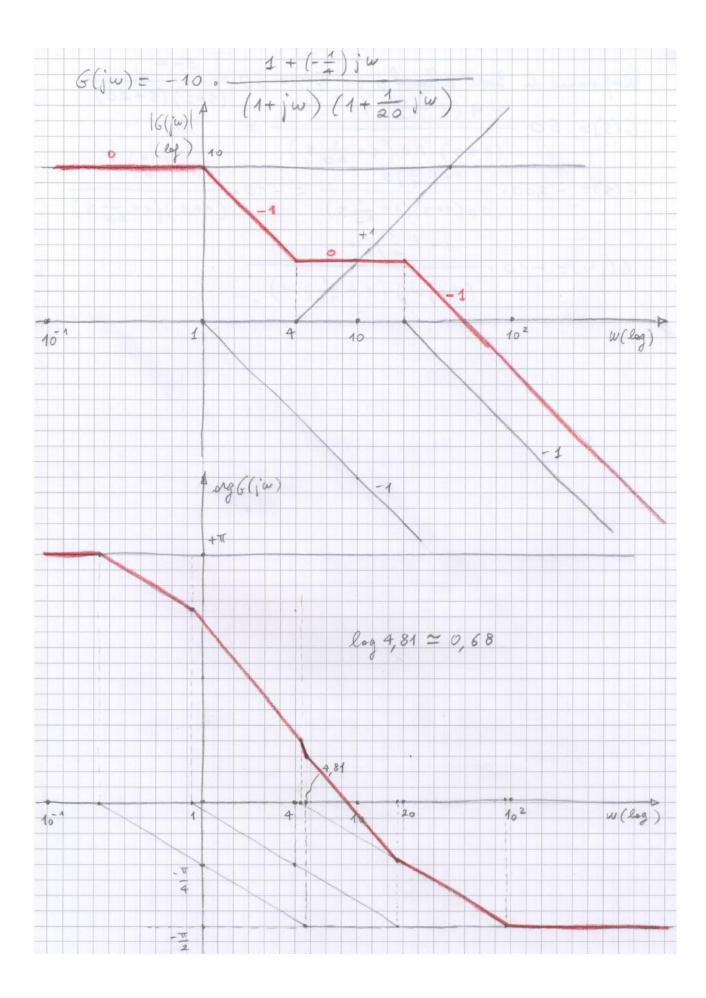
## Tracce delle soluzioni

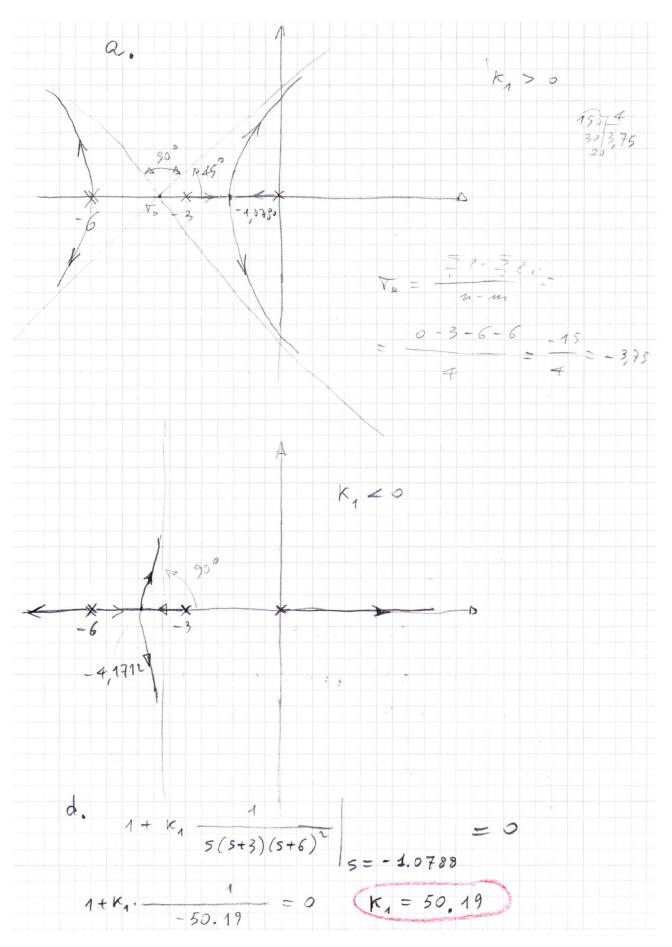
- 1. Vedi le dispense del corso.
- **2.** Vedi le dispense del corso per la definizione di banda e per la formula finale. Quest'ultima si deduce risolvendo un'equazione algebrica di secondo grado.

**3.** 

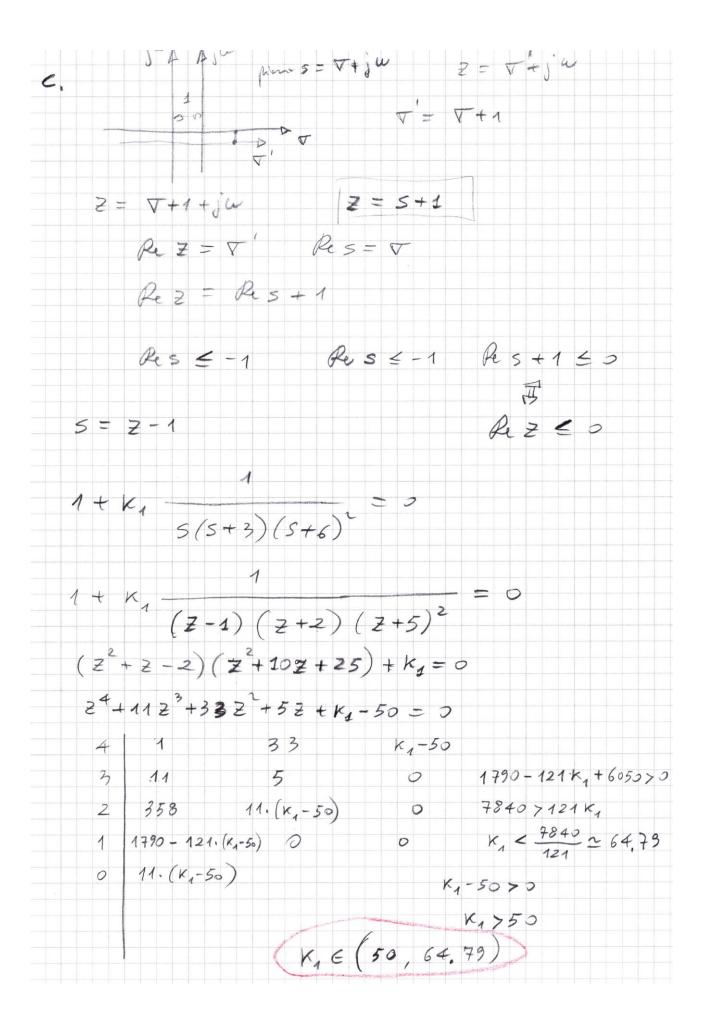




4.



5 + 3 + 5 + 5 + 5 + 5 + 5 1 + 1 + 2 = 0 (S+3) (S+6) + 5 (S+6) + 2 S (S+3) = 0 52+95+18+52+65 +252+650  $S_{1,1} = \frac{-21 \pm \sqrt{21^2 - 16.18}}{8} = \frac{-21 \pm \sqrt{153}}{21 \pm \sqrt{153}} = \frac{-21 \pm 12.368}{21 \pm \sqrt{153}}$ 452+215+13=0 - 1,0788 - 4, 1712 b)  $1+ x_1 = 0$   $5(5+3)(5+6)^2 = 0$  $(5^2 + 35)(5^1 + 125 + 36) + K_1 = 3$ 5+125 +365 + 353 + 3652 + 1085 + K1 = 3 5+ 1553 + 7252 + 1085 + K, = 0 4 1 72 3 15<sup>5</sup> 108<sup>36</sup> 11.664 - 25K, >0 0 K, >0 324 5 K, 0 25 K, < 11.664 324.36-254, 0 0 K1 2 11'664 ~ 5 K1 0 K, € (0, 466,56) = 466,56



5.

$$\begin{cases} f(s) = \frac{1}{5^3} \\ f(s) = \frac{$$

$$C(s) = \frac{3725^2 + 5085 + 240}{5^2 + 185 + 121}$$

1. Si soplich in gradium 2(4) = 3.1(4) of nistance

who oni mode e pi determina l'ensue a rejume la

[i:=lum (12(4) - y(4))] ad ileter une strue del

tempe shi omestamento

en = 0 probe è un nistan on tipe 3

To = 3 sec.