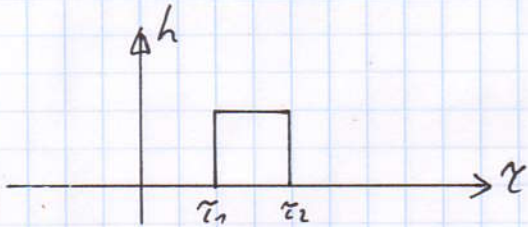
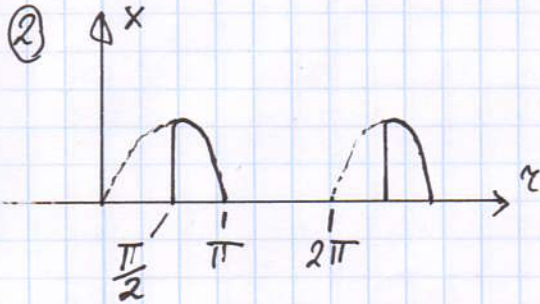


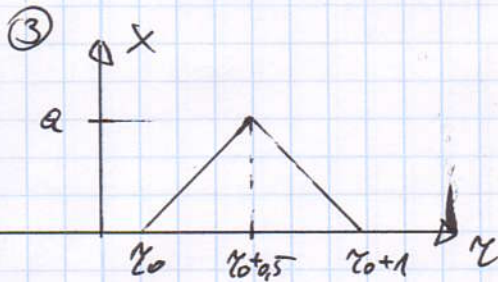
① Nullzustandsantwort?



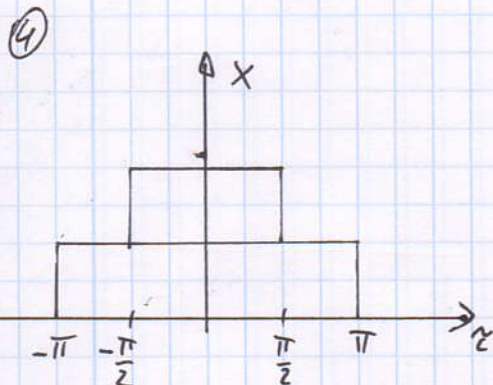
$$u(\tau) = a \cdot \cos(2\pi \nu \tau)$$



$$|X_1|, |X_2| = ?$$



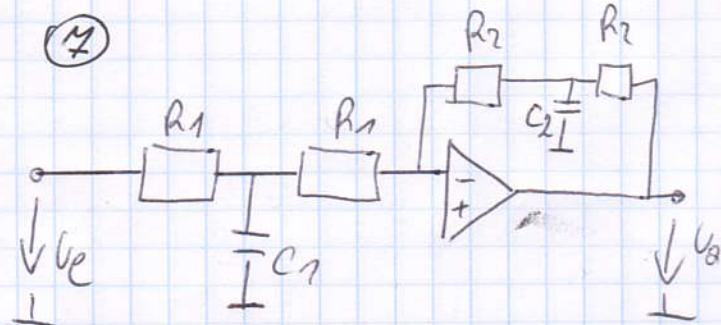
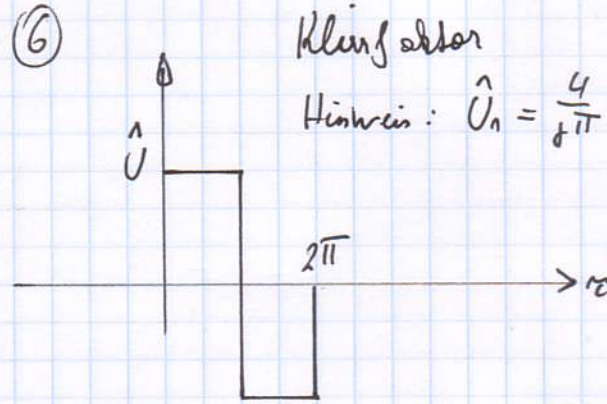
=> X(s) (mit Tabelle)



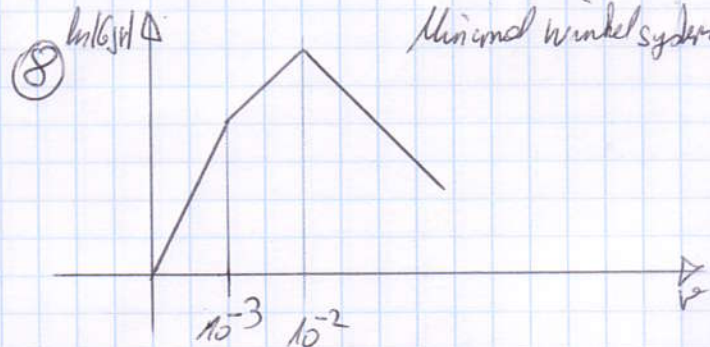
Spektralfunktion

⑤ 
$$G(s) = \frac{3s+4}{s^2+3s+2}$$

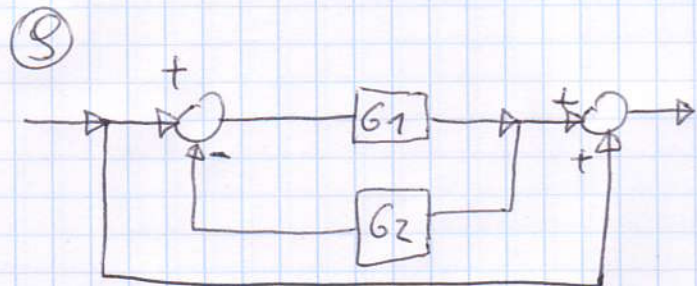
Stabil?, stationärer Endwert



Diffgl.



=> Winkel frequenzgang



$$G(s) = ?$$

⑩ Butterworth-Tiefpassfilter

$$G(f\nu) = \frac{1}{\sqrt{1 + \left(\frac{f\nu}{f_0}\right)^{2n}}}$$

- Betrag frequenzgang f. n=1, 2, n?
- n, wo Dämpfung (-ln|G(f\nu)|) im Bereich  $f \leq 0,8 f_0$  kleiner 1 dB ist?