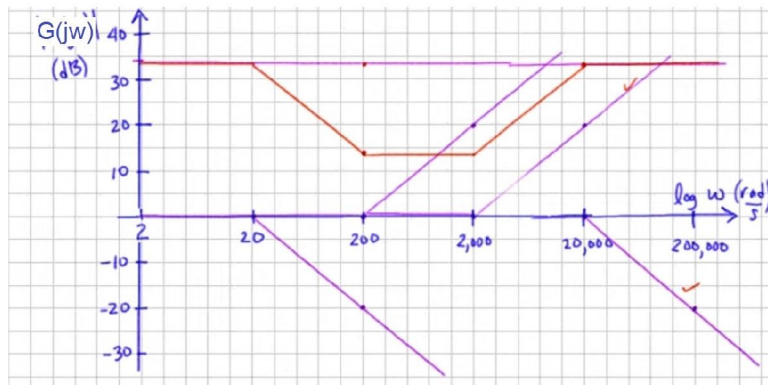


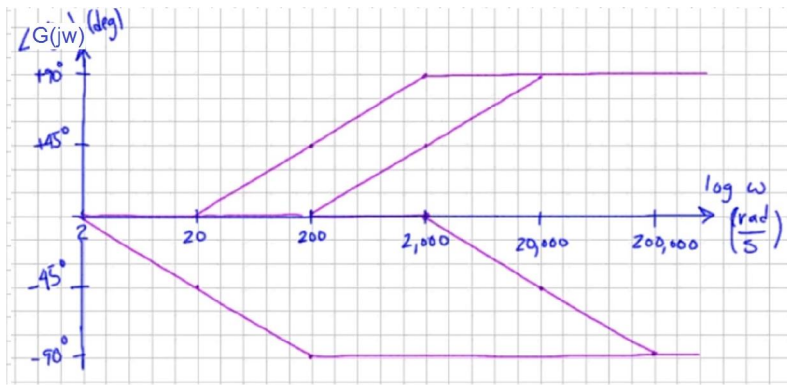
$$G(s) = \frac{50s^2 + 110E3s + 20E6}{s^2 + 20,020s + 400E3}$$

$$= \frac{50(s+200)(s+2000)}{(s+20)(s+20000)}$$

$$= \frac{50 \cdot \cancel{1} \cdot \cancel{1} \cdot (1 + \frac{s}{200}) \cdot \cancel{1} \cdot \cancel{1} \cdot (1 + \frac{s}{2000})}{\cancel{1} \cdot \cancel{1} \cdot (1 + \frac{s}{20}) \cdot \cancel{1} \cdot \cancel{1} \cdot (1 + \frac{s}{20,000})}$$

$$20 \log_{10}(50) = +34 \text{ dB}$$





$$G(s) = \frac{50s^2 + 110E3s + 20E6}{s^2 + 20,020s + 400E3}$$

$$= \frac{50(s+200)(s+2000)}{(s+20)(s+20000)}$$

