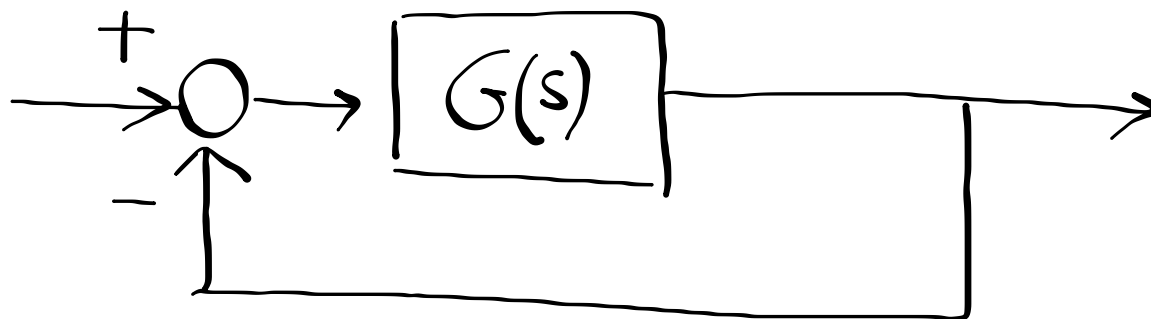


$$G(s) = \frac{1}{s(s+5)^2}$$

$R(s)$

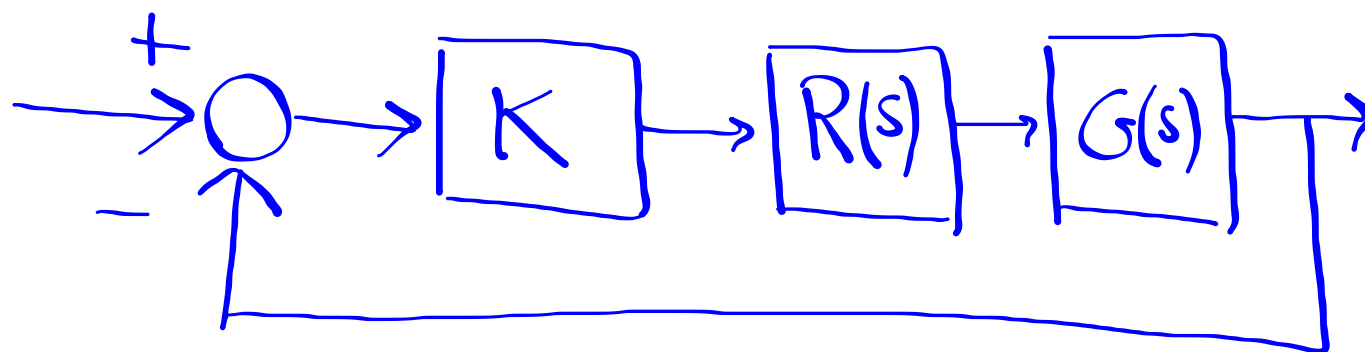
II

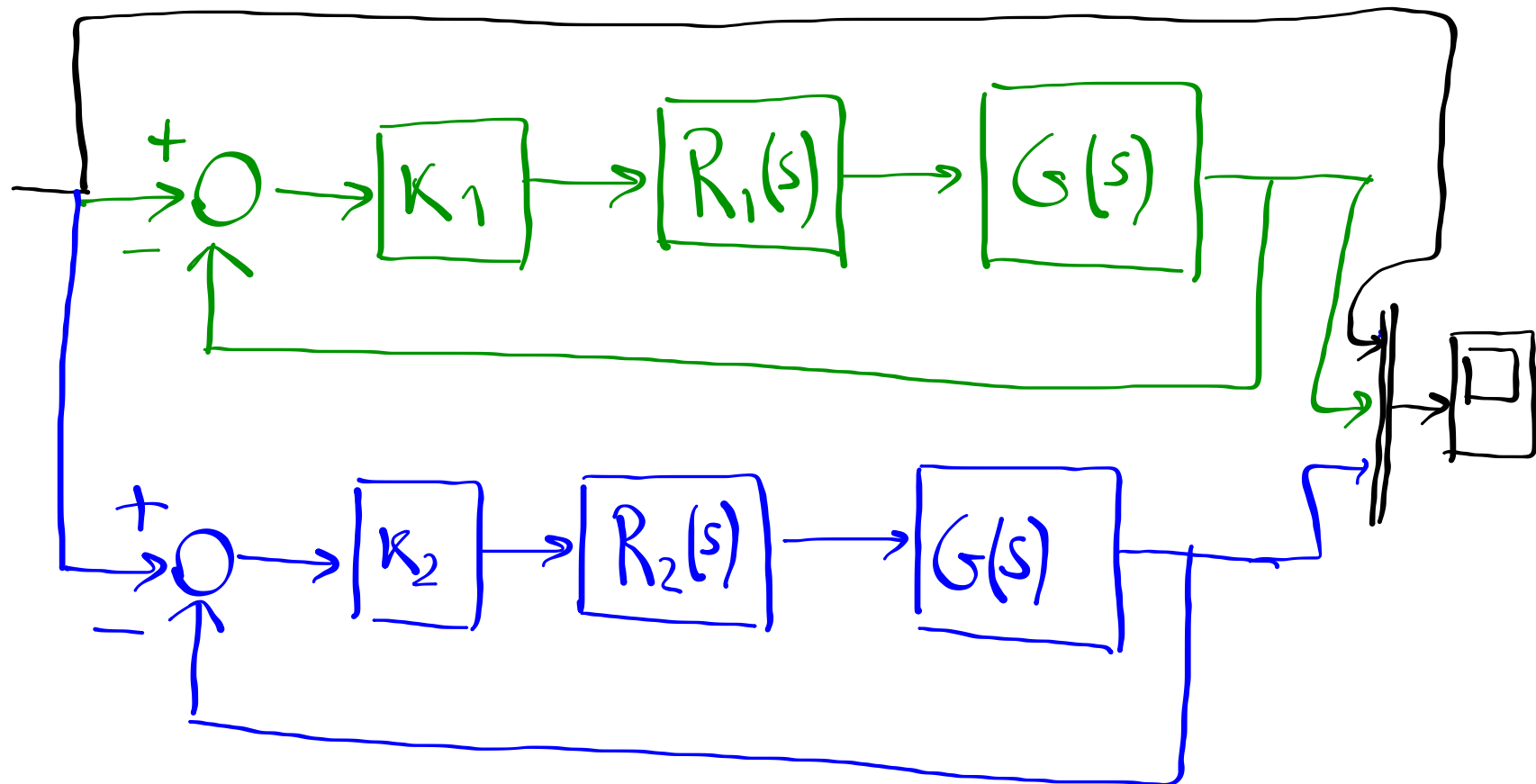
$$K_1 \frac{1 + s/4.8}{1 + s/4.5}$$



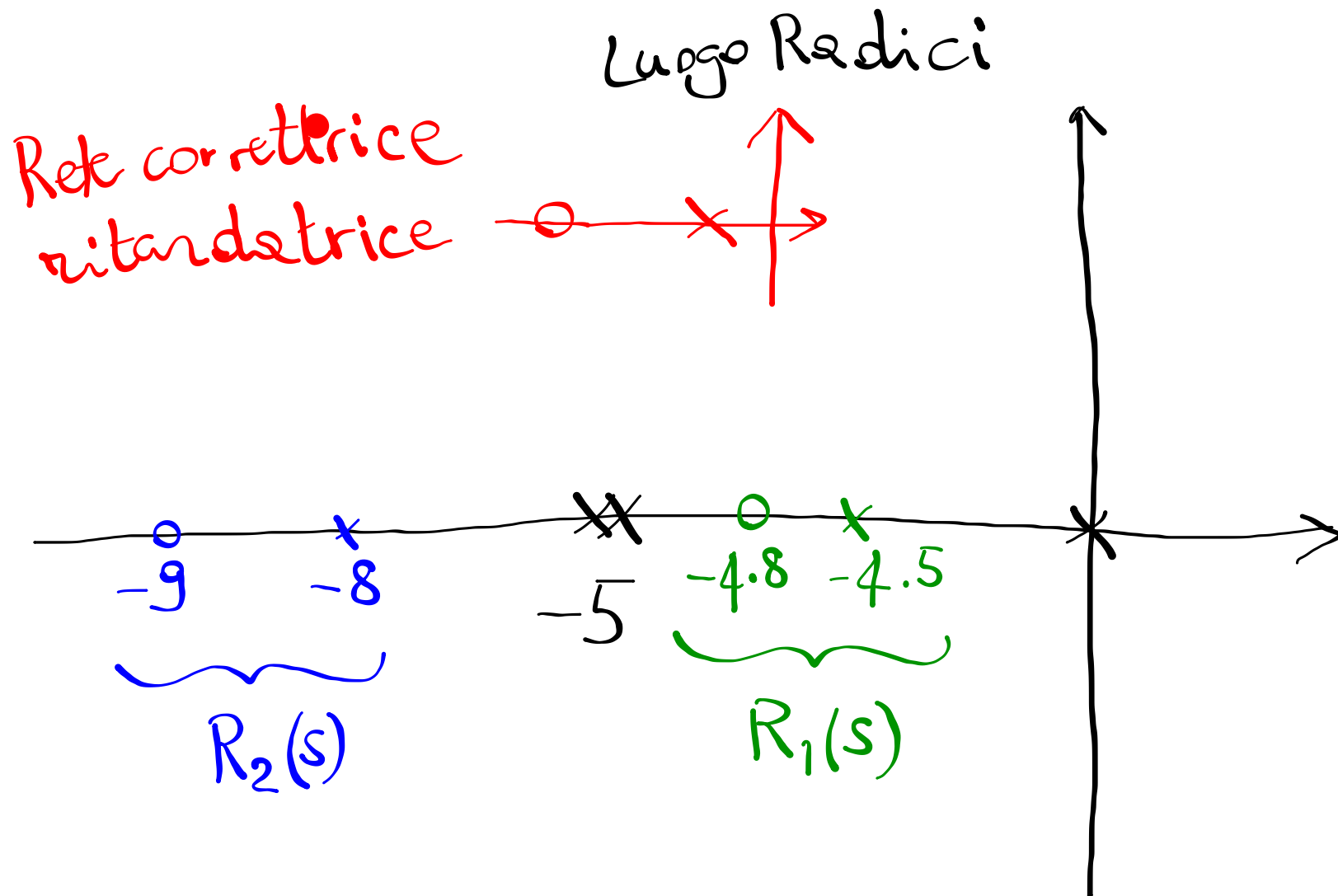
oppure

$$K_2 \frac{1 + s/9}{1 + s/8}$$





$$K_1 \cdot R_1(s) = K_1 \frac{1 + s/4 \cdot 8}{1 + s/4 \cdot 5} , \quad K_2 R_2(s) = K_2 \frac{1 + s/9}{1 + s/8}$$



Diagrammi di Bode

$$R_1(s) \Rightarrow G_{a1}(s) = R_1(s) \cdot G(s)$$

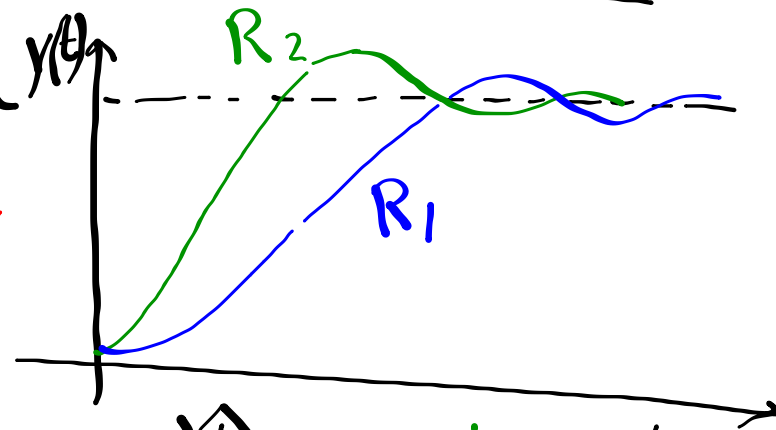
$$R_2(s) \Rightarrow G_{a2}(s) = R_2(s) \cdot G(s)$$

Confronto bode di $G_{a1}(s)$ e $G_{a2}(s)$

Scelta tra 2 reti correttivi

● Velocità della risposta

- Sistema compensato da R_2 è più veloce di quello con R_1



● Larghezza di Banda

- Il sistema compensato da R_2 ha banda più larga di quello con R_1

