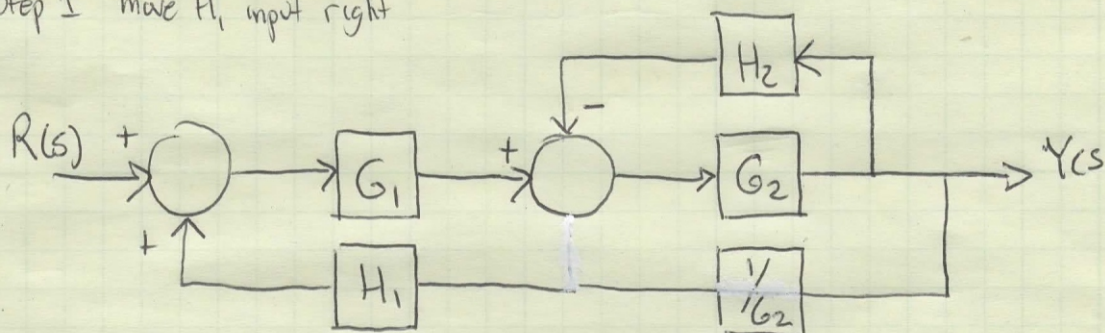
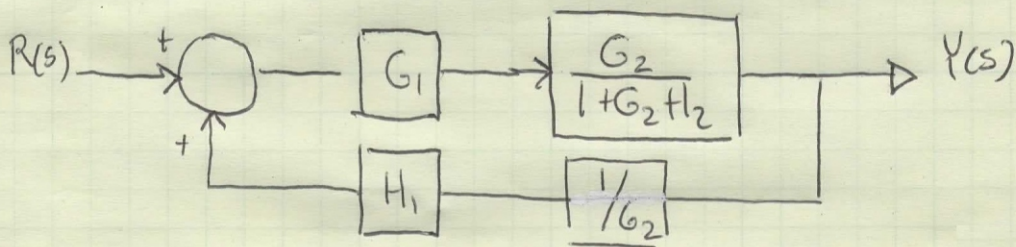


Step 1 move  $H_1$  input right



Collapse feedback loop



Combine upper pair  
Collapse w/ feedback loop

$$R(s) \frac{\frac{G_1 G_2}{1 + G_2 H_2}}{1 - \frac{G_1 G_2 H_1 \frac{1}{G_2}}{1 + G_2 H_2}} = Y(s)$$

$$\frac{Y(s)}{R(s)} = \frac{G_1 G_2}{1 + G_2 H_2 - G_1 H_1}$$