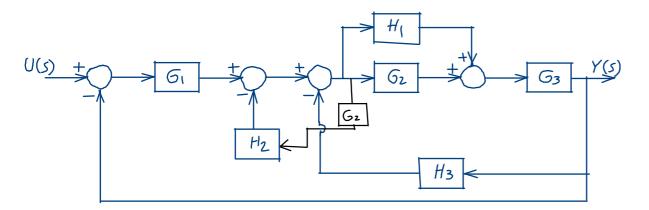
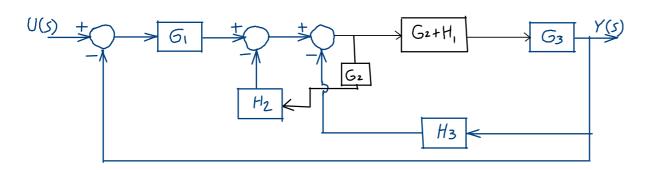


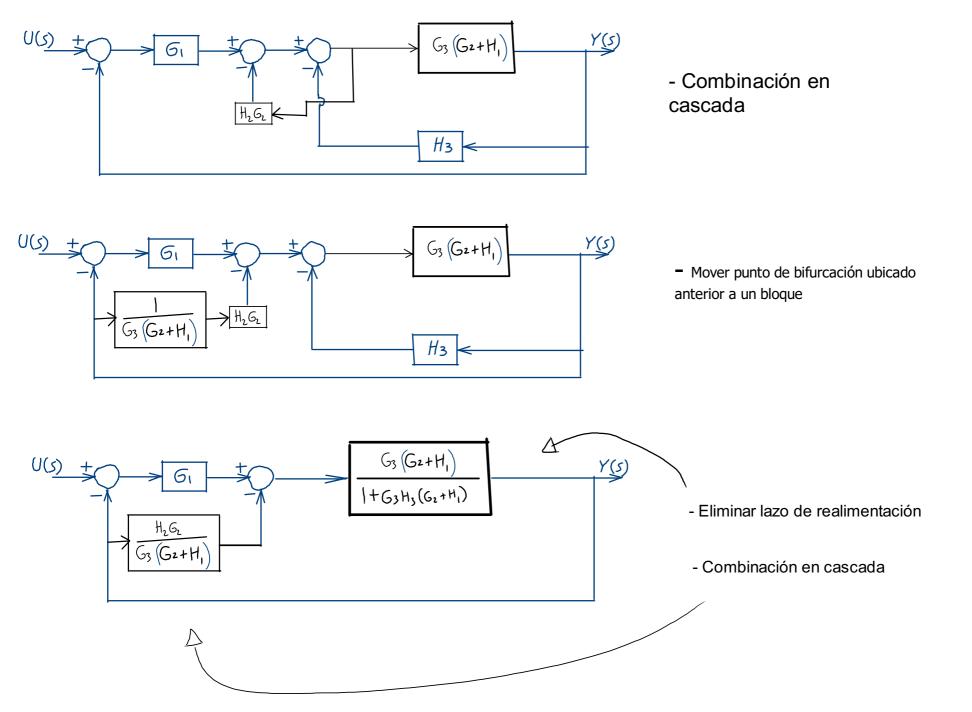
Inicial

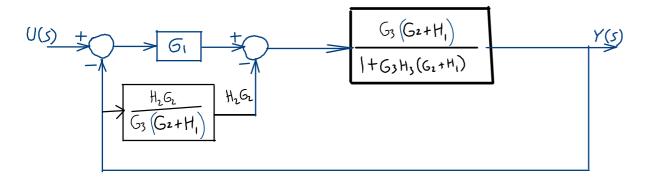


Mover punto de bifurcación ubicado posterior a un bloque

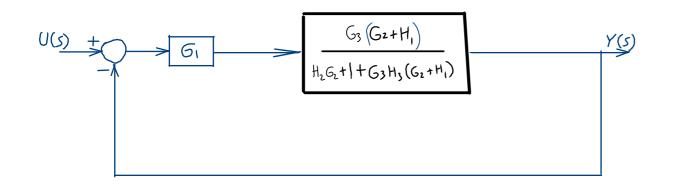


Combinación en paralelo

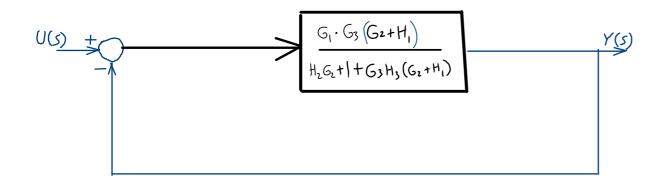




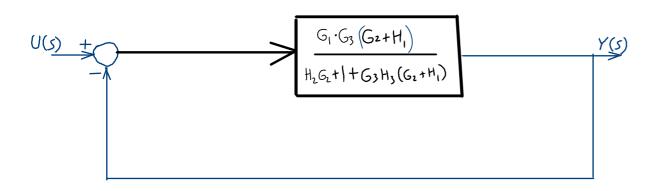
$$\frac{G_{3}(G_{2}+H_{1})}{I+G_{3}H_{3}(G_{2}+H_{1})} = \frac{G_{3}(G_{2}+H_{1})}{I+G_{3}H_{3}(G_{2}+H_{1})} = \frac{G_$$



- Eliminar lazo de realimentación



- Combinar en cascada



$$\frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{G_{1} \cdot G_{3} (G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})} = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{H_{2}G_{2} + 1 + G_{3}H_{3}(G_{2} + H_{1})}$$

$$U(s) \longrightarrow \frac{G_1 \cdot G_3 (G_2 + H_1)}{G_1 \cdot G_3 (G_2 + H_1) + H_2 G_2 + H_3 G_3 + H_3 G_2 + H_1)} Y(s)$$

Eliminar lazo de realimentación

$$H(S) = \frac{G_{1} \cdot G_{3} (G_{2} + H_{1})}{G_{1} \cdot G_{3} (G_{2} + H_{1}) + H_{2}G_{2} + |+G_{3}H_{3} (G_{2} + H_{1})}$$