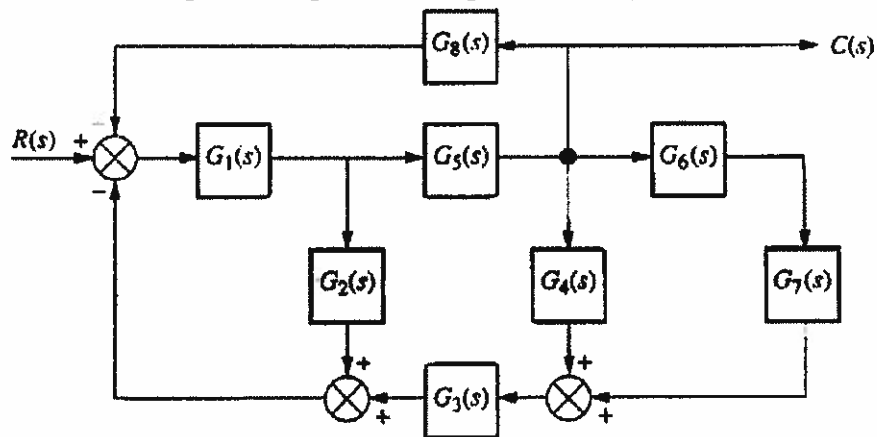


Block Diagram Practice Problems

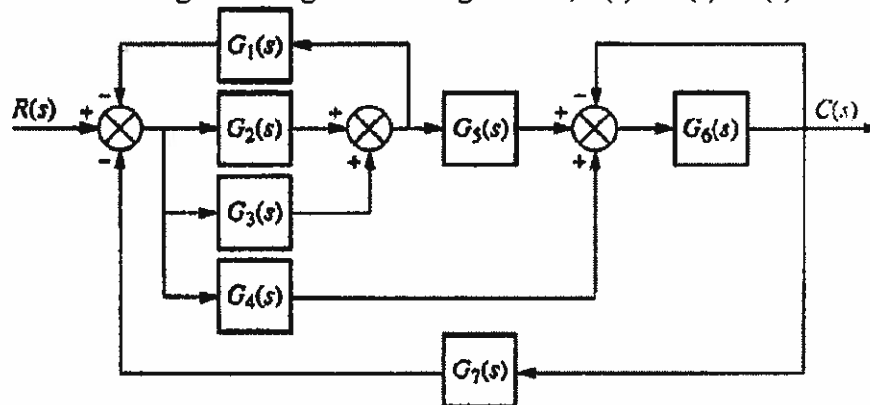
Problems:

Block Diagrams

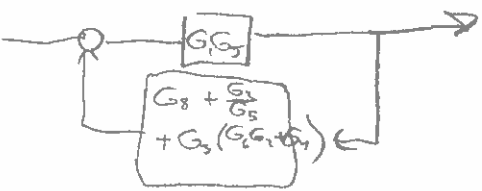
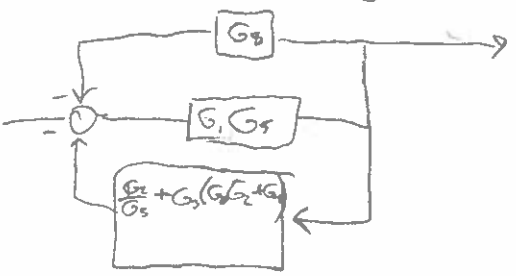
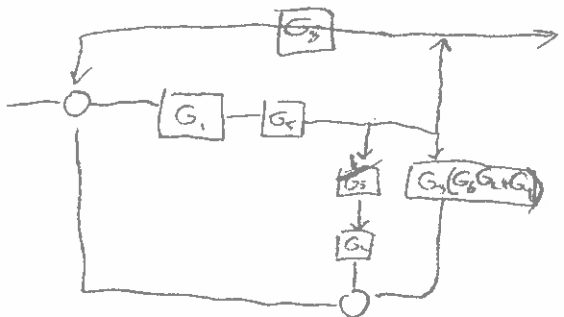
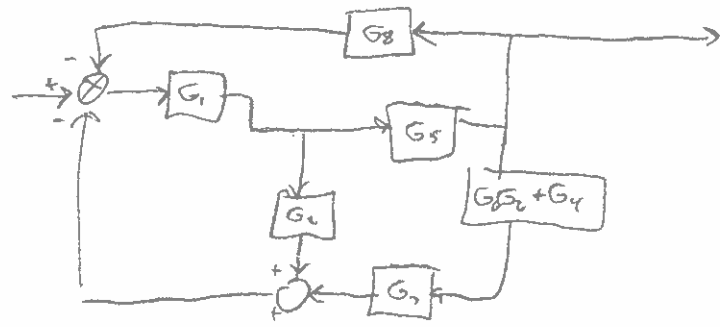
1. Reduce the following block diagram to a single block, $T(s) = C(s) / R(s)$.



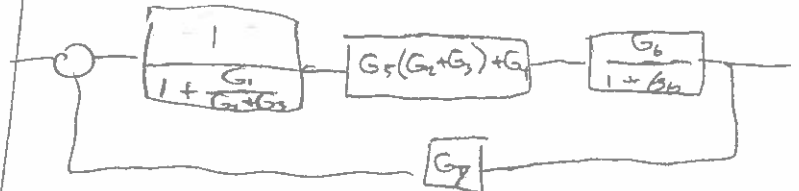
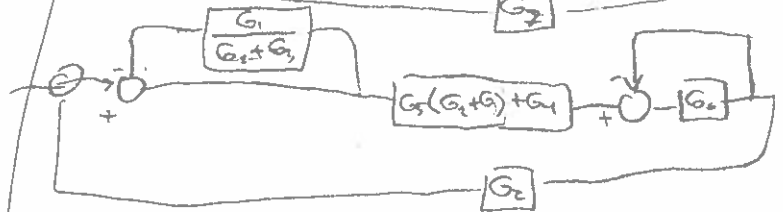
2. Reduce the following block diagram to a single block, $T(s) = C(s) / R(s)$.



11)



$$\frac{G_1 G_2}{1 + G_1 G_2 (G_4 + \frac{G_5}{G_2} + G_5 (G_6 G_2 + G_1))}$$



$$\frac{(G_5 (G_2 + G_3) + G_1) G_6}{(1 + \frac{G_1}{G_2 + G_3}) (1 + G_6)}$$