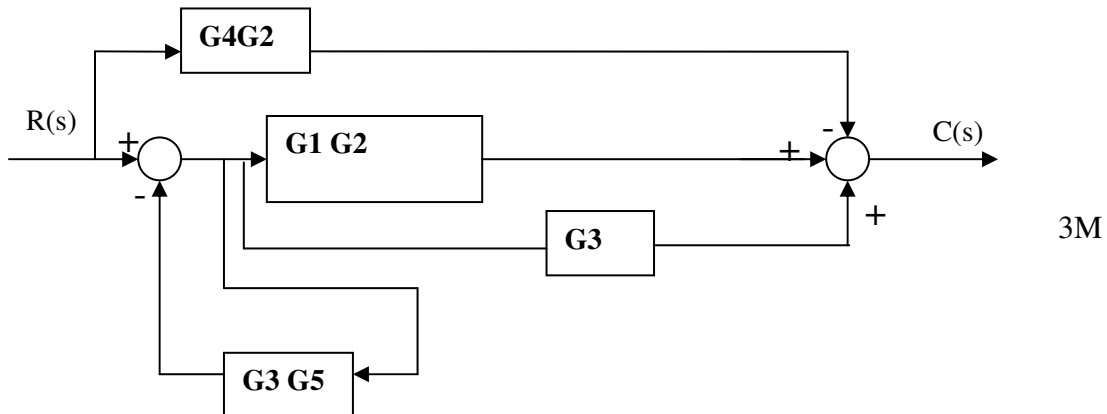
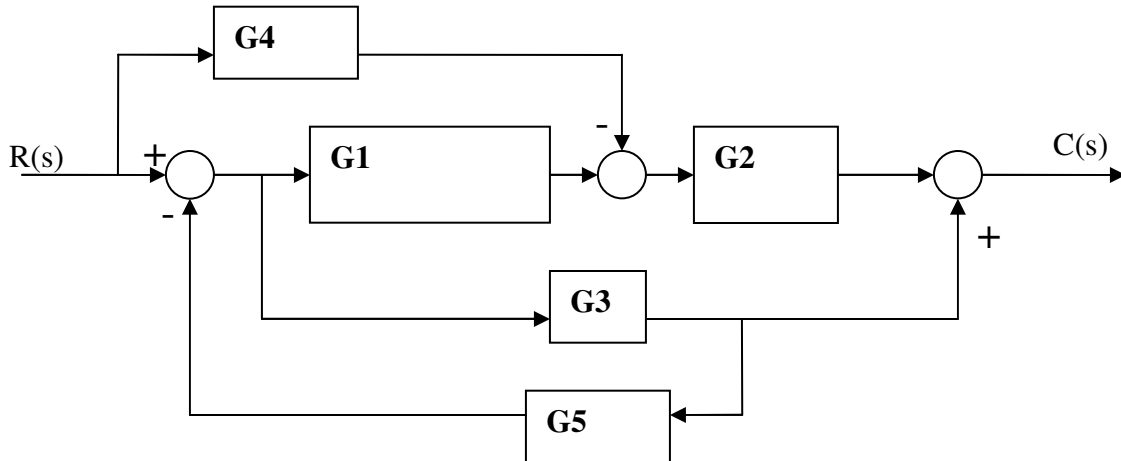
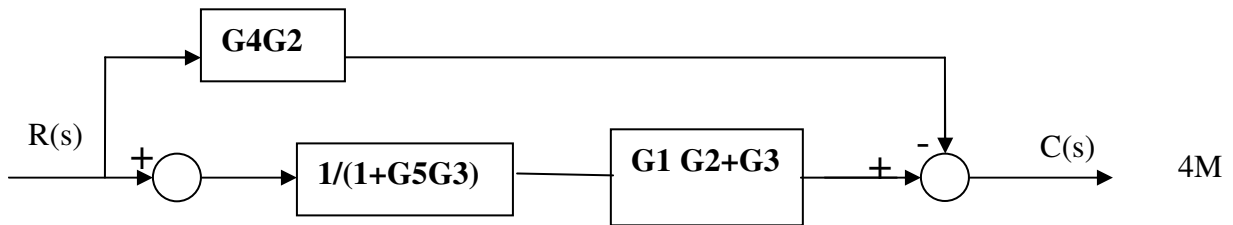


Solution of Quiz No. 1, Held on 16.8.2007

Q. Determine the transfer function, $C(s)/R(s)$ using block diagram reduction techniques. Clearly show all the steps.



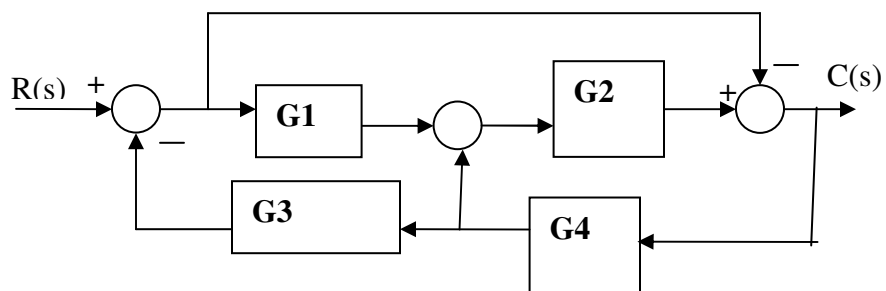
3M



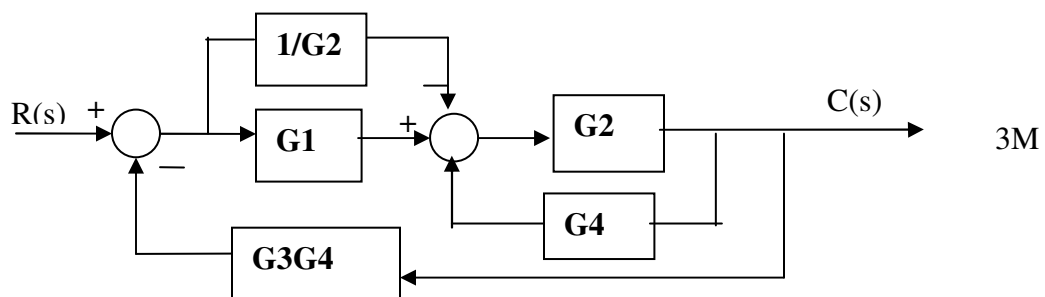
4M

$$C(s)/R(s) = [1/(1+G_3G_5)](G_1G_2+G_3) - (G_4G_2) \quad 2M$$

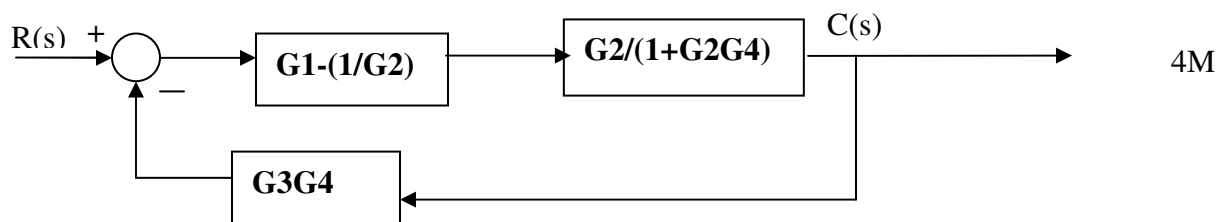
$$= (G_1G_2+G_3-G_2G_4-G_2G_3G_4G_5)/(1+G_3G_5) \quad 1M$$



B



3M



4M

$$C(s)/R(s) = (G_1 G_2 - 1) / (1 + G_2 G_4 + G_1 G_2 G_3 G_4 - G_3 G_4)$$

3M