Take 
$$Y$$
 $A = R(S) - Y + H$ 
 $Y = A \cdot G = R(S) \cdot G(S) - G \cdot Y + H$ 
 $Y = A \cdot G = R(S) \cdot G(S) - G \cdot Y + H$ 
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 $Y = A \cdot G = R(S) \cdot G(S) - G(S)$ 
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 $Y = A \cdot G = R(S)$ 

Tarea 5
$$\frac{((s))}{R(s)} = \frac{10s + 70}{5^3 + 7s^2 + 30s + 40}$$

$$\frac{1}{5} = \frac{10}{5}$$

$$\frac{1}{5+2} = \frac{1}{5+2}$$

$$b = \frac{1}{5} \cdot a$$
.  $R(s) + C = R(s) + C(s) \cdot \frac{1}{s+2}$ 

$$C(s) = b \cdot \frac{10}{s+s}$$
  $b = \frac{1}{s} R(s) + C(s) \cdot \frac{1}{s} \cdot \frac{1}{s+1}$ 

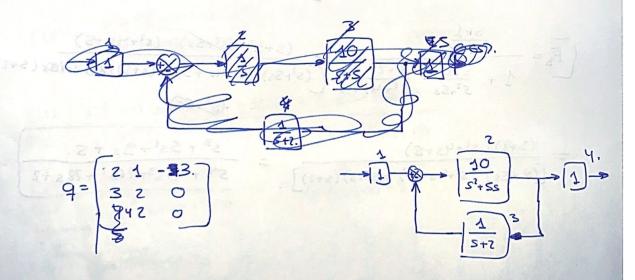
$$C = C(s) \cdot \frac{1}{s+2}$$
  $C(s) = \frac{1}{s} \cdot \frac{1}{s+2} \cdot R(s) + C(s) \cdot \frac{1}{s} \cdot \frac{1}{s+2} \cdot \frac{1}{s+5} \cdot$ 

$$C(s) = \frac{40}{s^2 + 5s} R(s) + C(s) \cdot \frac{40}{s^3 + 7s^7 + 40s}.$$

$$C(s) - C(s) \cdot \frac{10}{s^3 + 7s^7 + 10s} = \frac{10}{s^7 + 5s} R(s).$$

$$C(s) = \frac{C(s)}{R(s)} = \frac{1}{s^3 + 7s^7 + 10s}$$

$$G(s) = \frac{s^3 + 7s^2 + 40s}{\left(s^3 + 7s^2 + 40s - 40\right)\left(s^2 + 5s\right)} = \frac{105 + 5}{\left(s^3 + 7s^2 + 40s - 40\right)}$$



$$C(s) = \frac{12 R(s) - 12d}{s+3} + \frac{9(R(s))}{(s+4)(s+3)+9}.$$

## Clare Mary Transparation

$$C(s) = \frac{42 R(s) - 12 \frac{9 R(s)}{(s+4)(s+3)+9}}{s+3} + \frac{9 R(s)}{(s+4)(s+3)+9}$$

$$C(s) = \frac{420(s)[(s+4)(s+3)+9] - 4080(s)}{(s+3)^2(s+4) + 9(s+3)} + \frac{90(s)}{(s+4)(s+3)+9}$$

$$\frac{C(s)}{R(s)} = \frac{32[(s+4)(s+3)+9] - 308 + 9(00)(6430)}{(s+3)^2(s+4)+9(s+3)}$$

$$\frac{C(s)}{R(s)} = \frac{32[(s+4)(s+3)+9] - 308 + 9(00)(6430)}{(s+4)(s+3)+9}$$

$$\frac{C(s)}{Q(s)} = \frac{12(s+4)(s+3)}{(s+4)+9(s+3)} + \frac{9}{(s+4)(s+3)+9}$$

$$\frac{C(s)}{R(s)} = \frac{42s + 57}{(s+3)(s+4)+9}$$

