Antitrasf 2:

$$y(s) = \frac{\kappa_1}{S+P_1} + \frac{\kappa_2}{S+P_2} + \dots$$
 mel T.C.

Se 
$$y(z) = \frac{2z^2 + 2z}{z^2 + 2z - 3}$$
  $\Rightarrow \frac{y(z)}{z} = \frac{2z + 2}{z^2 + 2z - 3}$   $\Rightarrow \frac{\beta}{z - 1}$ 

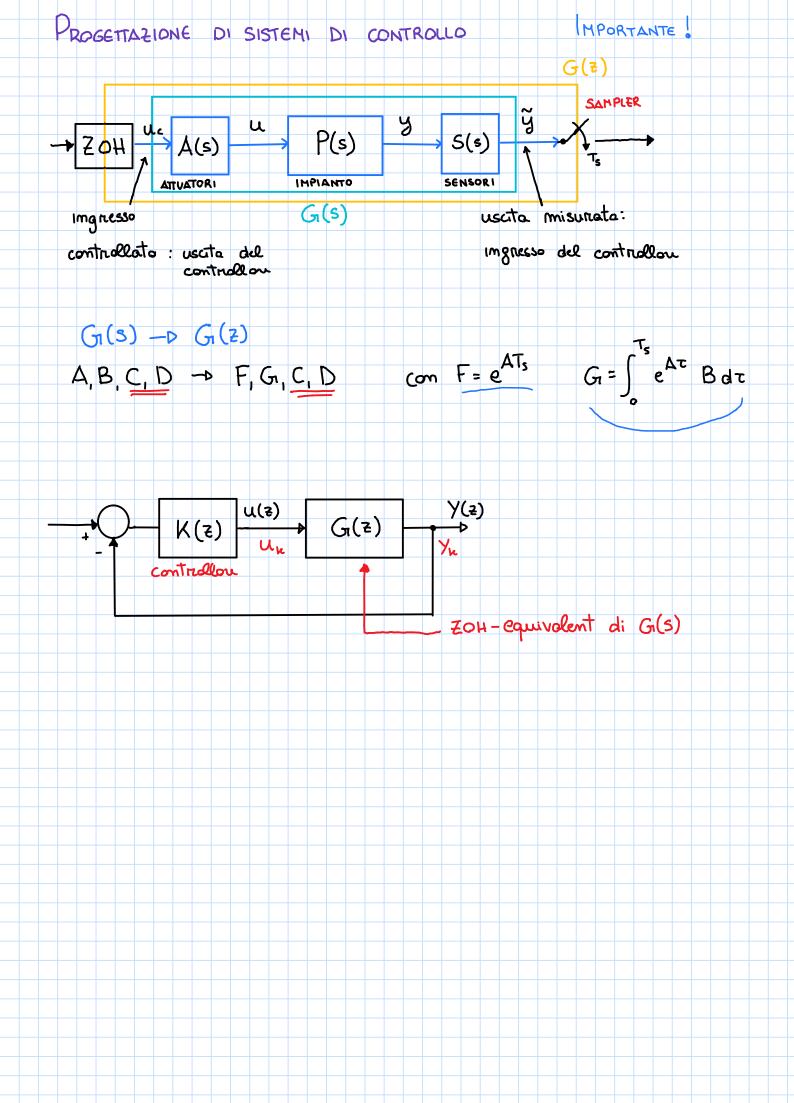
$$A = (2+3) \frac{y(2)}{2} = (2+3) \frac{(2+2)}{2-4} = 1$$

$$= (2+3) \frac{(2+3)(2-1)}{2}$$

$$B = (z-1) \frac{y(z)}{z} \Big|_{z=1} = (z-1) \frac{(z+2)}{(z+3)(z-1)} = 1$$

$$\frac{y(2)}{z} = \frac{1}{z+3} + \frac{1}{z-1} = y(z) = \frac{z}{z+3} + \frac{z}{z-1}$$

$$Y_{k} = Z^{-1} \{ Y(z) \} = -3^{k} H(k) + 1 \cdot H(k)$$



Ex: PROCESTARE CONTROLLORE PROPORE 
$$K(2) = K$$
 PER ( IMPIANTO  $G(2) = \frac{1}{Z(2-1)}$  F.d.t.  $\Rightarrow G(N)$ 

Calculo la f.d.t. a ciclo chiuso

 $G_{cc}(2) = \frac{1}{A+G(2)}K(2)$   $K$   $K$ 
 $G_{cc}(2) = \frac{1}{A+G(2)}K(2)$   $K$   $K$ 

all variatur di  $K$  il polo del sist a ciclo chiuso si spostomo  $Z_{i,2} = \frac{1}{2} \frac{1}{A-G(N)} K = 0$   $Z_{i,3} = \frac{1}{2} \frac{1}{A-G(N)} K = 0$   $Z_{i,4} =$ 

