93% = 9,5% G(S)= 20(5+21) (3+4 63=0,145 X(0) + 002+200+100 - + 7 (8) 3+55°+45 24(5) = 7 UW 38+552+45 (52+562+45) XILLI = ULD ; XI + 5xi + 4xi = U X1(3) - X1; X2 = X1; X2 = X1 X3 = X1 X3 = -5x3 - 4x2 + U Y(s) = (b252 + b15+b0) X1(s) = (052 +205 +100) X16) = [20s + 100) X16) 20x4 + 100x4 => 20x2 + 100x4 y = 20x2 + 100x1 x = 000 x + 00 u 4- 1100 00 01 x

- (4 17 - 421) - 2,3539= 41-44 3,54 - 5,54 42 7 7 TTZ 3,54 = cy2 (TT2 + 5,54) 4 = 3,54 T12+5,54 4 = 0,5996 tano = ud => wd = tom (33,76) (3,4) = 7,21. X = Ax + Bx y = Cx

```
X = AX + BU - X = AX +0 (- XX++)
X = -BKX + BX + Ax - x = (A-BK) X + B+
  y = 1700 00 01 | MZ -
    X3=4X2 - 5X8+U
       = -4 x2 - 5x3 - K3 X3 - K2 X2 - K1X1 + K
       = + K1 X1 - (4+ K2) X2 - (5+ K3) X3 + V
    det ((SI-(A-BR)) = 52 + (S+KS)52 + (4+Kz) S+KN = D
            +07,21
                     (5+5,4+17,2) (s+ s,++07,2)
(s+5,1)
                   53+ 101952 + 136,225 + 413,83=0
            777,01
 5° + (5 + 5) 52 + (4+ t2) 5 + t1 = 57 17952+ 136,251 478,83
```

 $s^{2} + (s + s)s^{2} + (4 + k_{2})s + k_{1} = s^{2} + 139s^{2} + 136,254418,833$   $(s + k_{3})s^{2} = 1319s^{2} \implies k_{3} = 13.9 + s = 10.9$   $(a + k_{2})s = 136,22s \implies k_{2} = 136,22 + 4 = 132,22$   $k_{1} = 413,85$