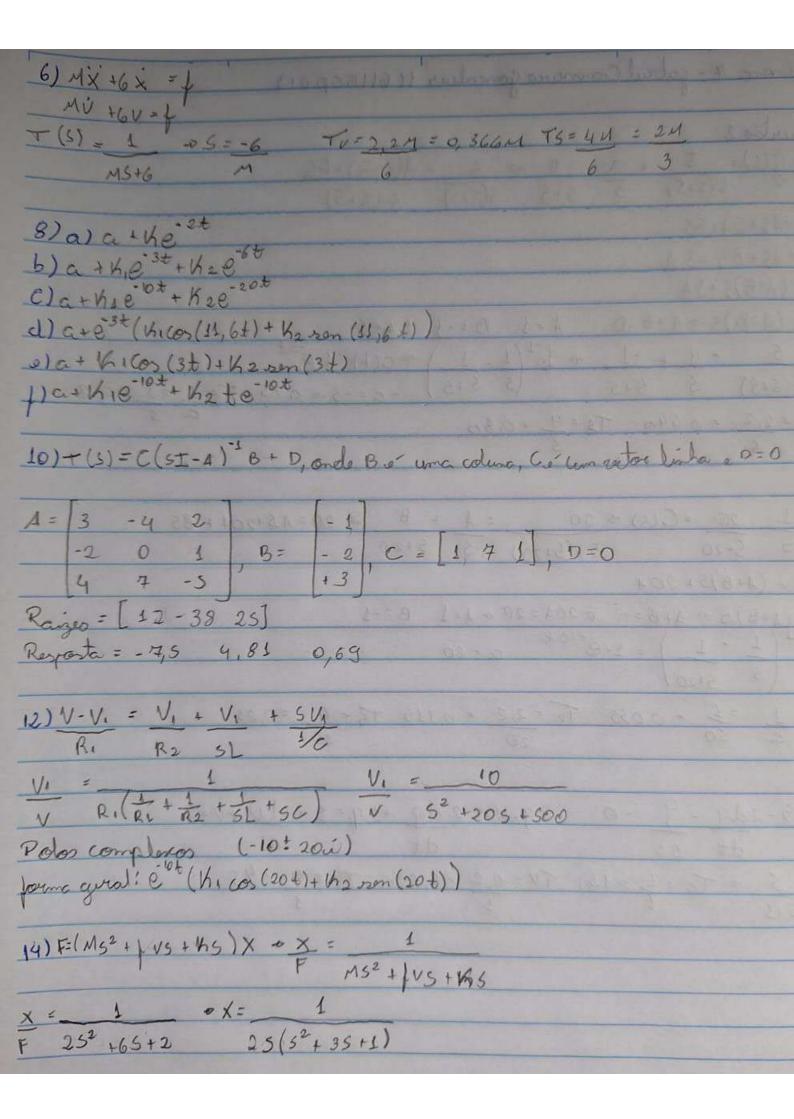
```
Semana 7 - galriel Carnivo goncalus 1161150p013
Questão 2
5 = 45+54:85
S=(A+B)5+5A
0 = (A+B) 5-0 A+B=0
TV= 2,2 = 0,445 T9=4 = 0,85
20 = (A+B)5 + 20A
0 = (A+B) 5 - A+B = 0 w 20A = 20 + A=1 B=-1
\int_{0}^{2} \left( \frac{1}{5} - \frac{1}{5+20} \right) = 1 - e^{-20x} \alpha = 20
T - 1 = \frac{1}{2} - 0.055 T_v = 2.2 = 0.115 T_s = \frac{4}{20} = 0.25
4)5-2dq-9-0 2g.v-0dq+29=5-dv+v=5
V= 5 + Tc = 1 = 15, Tv = 0,2 = 2,05 Ts = 4 = 45
 5+1
```



19) a wh = 20 ev 52 + 25 cm 5 + wh 8 = 0,15 52 + 65 + 400 T(s) = 400 C(s) = 400 + 1 - s + 3 - 3 $S^{\circ} + 6s + 400$ $S(s^{\circ} + 6s + 400)$ $S(s + 3)^{\circ} + 391$ $(s + 3)^{\circ} + 391$ $C(t) = 1 - e^{-3t} \left[cos(\sqrt{391}t) + \sqrt{393} sen(\sqrt{391}t) \right]$ 20) TS = 4 , To = T' & 7.05 = 8 T A-501. 100 a) um= 4 rades \8 = 0,375 Ts = 2,6665, Tp=0,9475, 1.05= 28%. b) Wm = 0, 2 rad/s 1 8 = 0,05 Ts = 4005, Tp = 15,72 91.05 = 85,4%. c) cum = 3240, 34 rad/s \ 8=0, 247 TS=5m5, Tp=1m5, 1.05=44,9%. 25) F-25x - 20x = 552x b) $u = \sqrt{\frac{20}{5}} = 2$ $8 = \frac{2}{5}, 2, 2$ $7.05 = e^{-5\pi} \sqrt{1.5^2}, 100 = 42, 92\%$ $T_s = \frac{4}{0.2} = 205$ $T_P = \pi = 1,585$ $T_F = 1,104 = 95525$ 1 = 0,05 (500