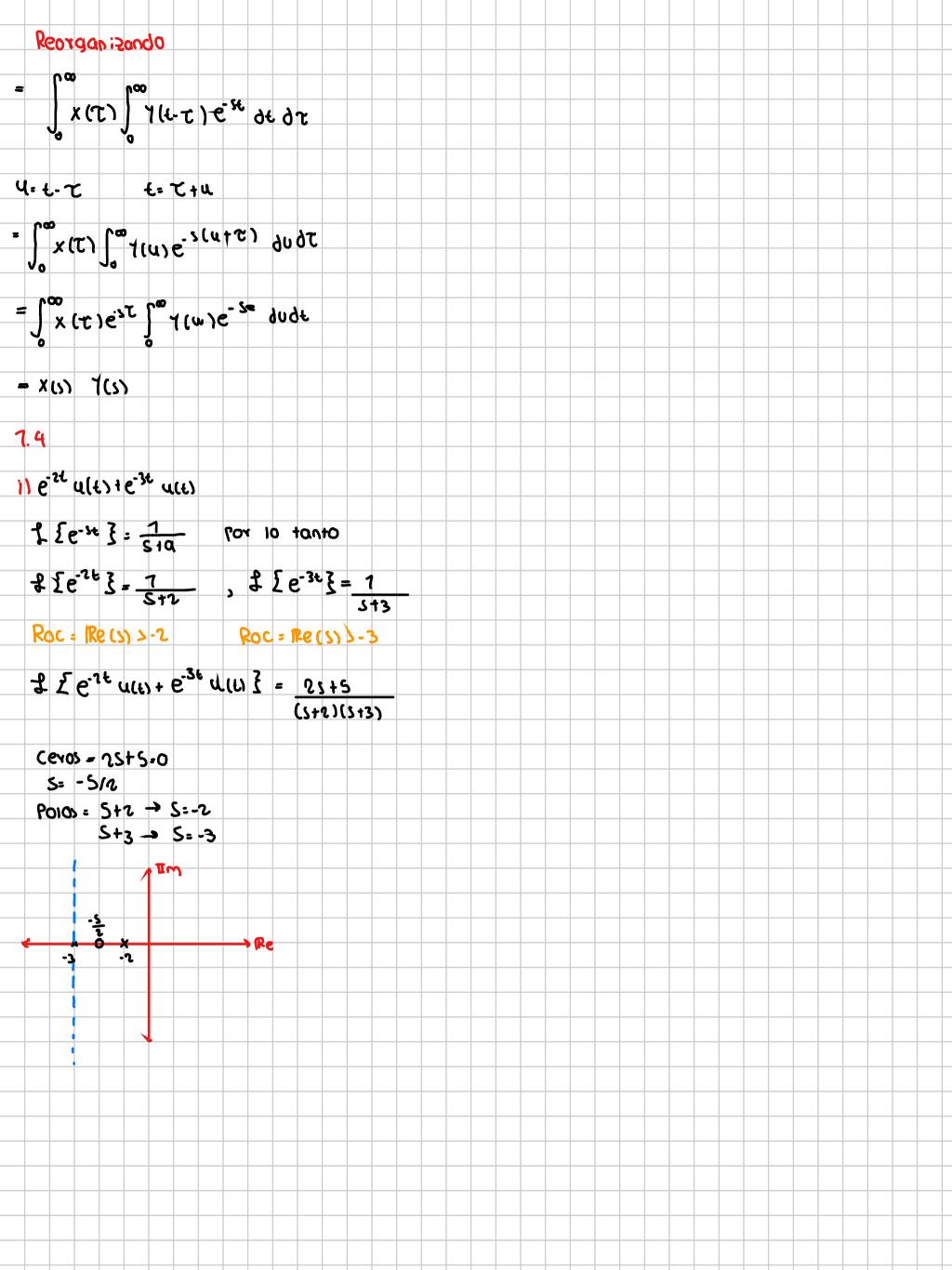


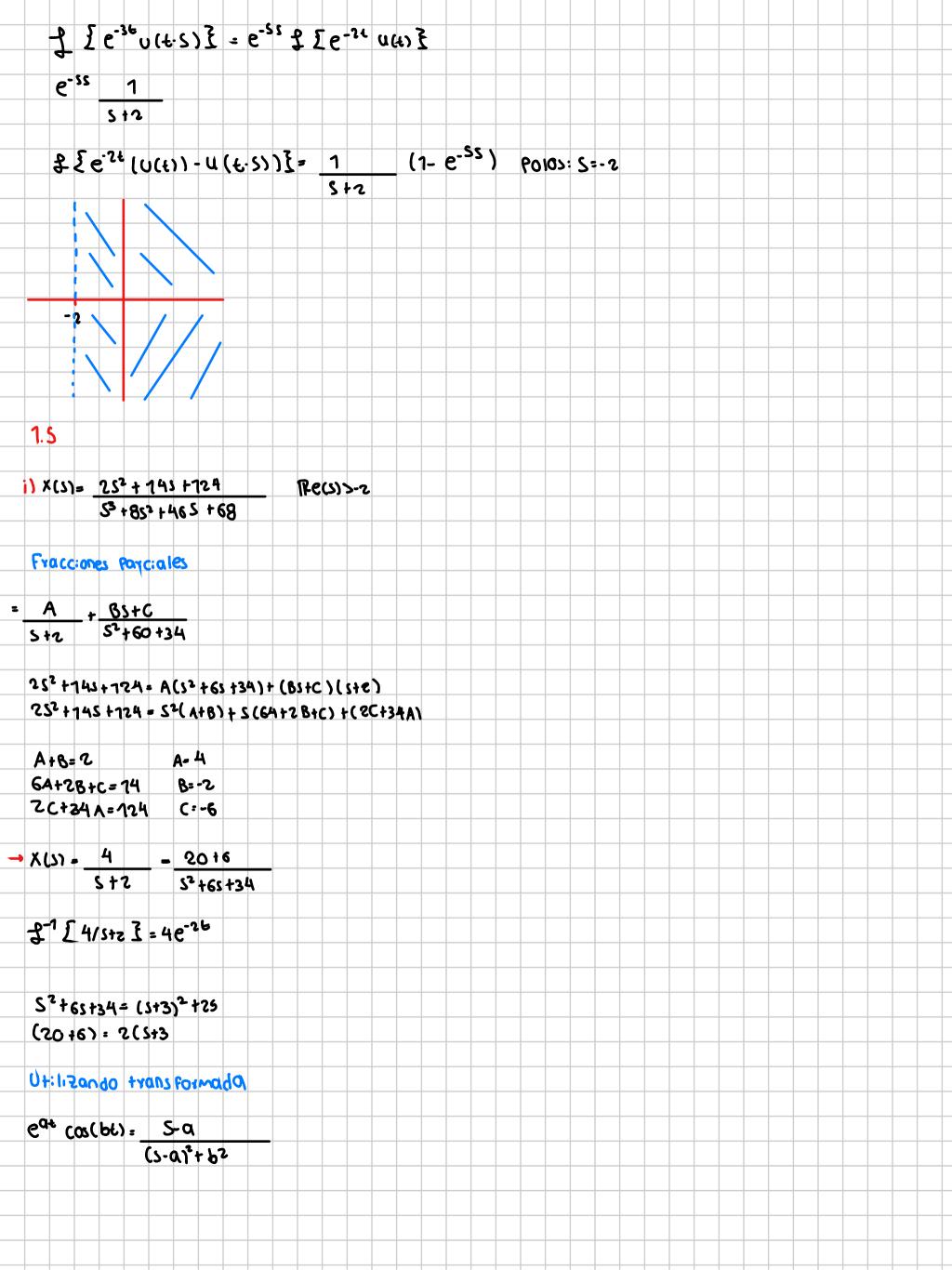
$$= \int_{-\infty}^{\infty} X(T)e^{-st} dt$$

$$= e^{s+\infty} \int_{-\infty}^{\infty} X(T)e^{-st} dt$$

$$Lf_{X(t)}(t_{t})^{2} - e^{-s_{t}} x_{t}(t_{t})$$
1)  $Lf_{X(t_{t})}(t_{t})^{2} - e^{-s_{t}} x_{t}(t_{t})$ 
1)  $Lf_{X(t_{t})}(t_{t})^{2} - f_{t}^{\infty} x_{t}(t_{t})^{2} - f_{t}^{\infty} x_{t}(t_{t})^{2} + f_{t}^{\infty} x_{t$ 



```
11) E 2 + U(E) + e. 3 + U(E)
         $ f ert u(1) } = 1/2 ROC Resz
Para U(-+) es 1 cuando teo 7 0 cuando teo
NO hat intersection comun, lo que nos indica que no hat roc
 $ [ e2 u(1) + e-3 u(2) ] = 25+1
 P0105 = 5=2 S=-3
Paiu> - Ceros = S = . 1
iii) e-alti
                e-alel = \ e-alel \ S: t>0
6.0181 = 6.08 M(F) + 606 M(-F)
$ \( \frac{1}{4} \) \( \frac{1
子[e-ale1]= 1 + 1 = -2a
S+a - S+a (s+a)(s-a)
1N) 6.54 [n(+) -n(+-2)]
         2 [e-2+ u(t)] = 1 | ROC : Re(5) >-2
       Usar Propiedad de des plazamiento en el tiempo
```



```
- 2e-34 (05(54)
 2 (313)
 (513)2 +25
 2-1 [x(s) ] = 4e-2t - 2e3t cos (st)
  \frac{1}{(5+1)(5+2)^2} = \frac{A}{5+1} + \frac{B}{5+2} + \frac{C}{(5+2)^2}
 7= A(5+2)2+ B(5+2)(5+1)+ ((5+1)
 1-52 (A+B) + S(4A+3B+C)+ (4A+2B+C)
  A+B=O
                     A= 1
                    B=-7
  4A+3B+C:0
  4A+28+c=1
                     C = -1
  X(y) = 1
             1
       S+1 S+2 (S+2)2
 x(+) - e-t - e-2t - te2t
1.6
 1) 90 7(6) + 01 dy(6) + 02 d27 (6) = x(6)
                             9 82
  X(f) = 675
  Resolviendo la EDO
  do es + a, ses + a252 es = es+
  ex (aota15 ta152) = est
 aotaistazs2-1
 7(1) = 636
11) EDO de orden h
 an d'ile + an-1 d''i | (e) + ... + an dy(e) + aoy(e) = x(e)
 (ai E re vi)
 Dado X(1)= 2616
 ans est + an-15 n-1 est + ... + a1 sest + a0est = est
```

